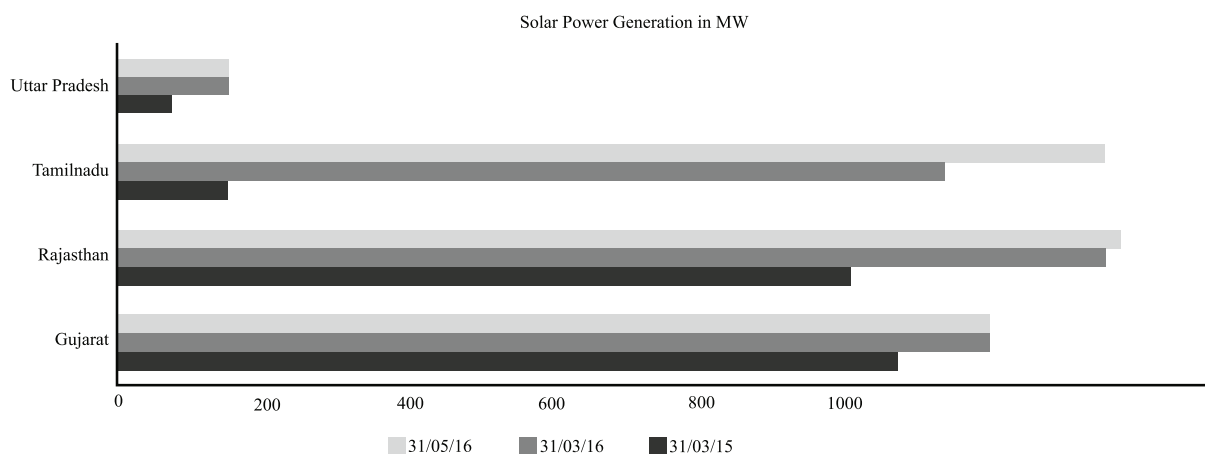


**W.2 Study the information about the Best village of Gujarat – Punsari. Now write a paragraph on it.**

- District – Sabarkantha
- System – Panchayati Raj
- Population – 6,000 (2012)
- Facilities – Mineral water supply, Health care centre, banking services, Toll free complaint center, mini buses for transportation, 120 speakers for announcements, five primary schools with CCTV cameras, underground drainage system, toilet in each home, school dropout ratio is zero, 25 CCTV cameras at the village junction
- Best Village Panchayat of Gujarat Award, Best Gram Sabha Award at National Level
- Future plans (2014) – WiFi connectivity, setting up a library

Now write a paragraph on ‘Punsari – the Best village in Gujarat’ describing the village in detail.

**W.3 Read the following bar graph showing details of solar power generation capacity of some states. Try to find out which state was a leader in solar power production in the past. Which one leads now? Which state is in stiff competition with the leading state? Which state is lagging behind? Explain the details in simple sentences. 🏠**



You can start like this: This bar graph shows the information of solar power generation capacity of some of the states of India. Gujarat was ahead of all in the production of Solar Power till 2015.

But

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**W.4 Write your ideas on ‘Making My Village/City Better’. You may use these clues. 🏠**

present facilities – facilities required – your ideas to motivate people – PPP Model (People’s Participation Programme જન ભાગીદારી યોજના) - plan of improving at least two facilities – possible effects on the village life – give a catchy name to the campaign



## UNIT 2



### Pre-task

- P.1** All of you must have used remote controls to operate a TV or a Music Player. Do you know how they work? †† Discuss with your partner. (In your mother tongue)
- P.2** Read the names and functions of some robots.

Name of the Robot	What do they do?/ Function
Moley	Quality of life is majorly decided by the food we eat. In the modern world, people want to eat good food but they don't have time to cook themselves. Therefore, Dr Mark Oleyne invented a robot that can cook healthy and tasty food to make lives happy. The robot can be operated by a smartphone and can cook food to be served at your convenient time.
Neuroarm	Neuroarm is designed to perform neurosurgeries (related to nervous system). Launched in 2007, the Neuroarm is guided by a neurosurgeon with the help of digital images. It can perform critical operations with high accuracy.
Seaswarm	Seaswarm works as a fleet (નોંકા કાફલો) and collects and removes oil from the sea surface. The small size robot is designed in such a way that it can operate without human support with the help of GPS and Wi Fi in the sea. It can protect precious aquatic life (સમુદ્રી જીવો) from the dangers of the oil spill.
DepthX	The Deep Phreatic Thermal Explorer is an underwater research robot. It can measure underwater space. It was designed to study underwater life and to collect samples. The DepthX project was funded by NASA with the goal of developing technology that can explore the oceans of Jupiter's moon.
Milo	Milo, the spiky hair robot that looks like a kid helps differently abled children in learning. It has a face like humans and it can make expressions too. It helps many children and families and brings happiness in their lives. The meaning of the name Milo is: merciful.

**Discuss why the robots are given such names. ††**

- P.3** Think of at least two robots you would like to invent to make lives of people easy. Give it an appropriate name and mention its possible functions. †††

No	Name of the robot	What would they do?
1		
2		

“May I help you, Sir?” grinned the short, narrow-eyed salesman inside the Super Robots Plaza.

“Well...er,” Prem Chopra responded, “I wish to purchase a robot...”

“For help, Sir,” completed the salesman. “That is our speciality. We manufacture efficient robots for industry, construction companies, plumbing and cleaning, caretakers - they are designed for only specialized work. Our best ones are for consumers like you - for the home,” he spoke like a recorded programme.

“Er...yes, that’s what I want” Prem Chopra spoke in a business-like fashion.

“Please come this way.” The salesman led him through a brightly-lit, richly-carpeted gallery into a huge dome-shaped hall glowing with fluorescent light. The right corner appeared to be crowded with robots in metallic silver, electric blue and green. Some were moving about as if practising to walk while some stood still switched out of operation. Just as Prem Chopra stepped on the threshold of the hall, one of the robots swiftly came forward. “Good day, Sir, welcome to Super Robots Plaza. We hope your visit here proves worthwhile,” the silver robot said in a metallic voice. “Brilliant,” mumbled Prem Chopra, somewhat bewildered.

The salesman gave a proud smile as he headed towards an isolated robot in a metallic blue. “This one is perfectly programmed to function in the household, cleaning, arranging, collecting groceries from the super market, tending the lawn, mailing letters, relating your programmes on the TV and selecting news of your interest from the paper.” The salesman paused for breath and continued, “All you need is the remote control monitor for command.”

“You mean sitting at home I can command the robot in the city market?” asked Prem Chopra.

“It operates within a limited radius of a kilometer. By the way, this one is called Ram Singh – 070,” the salesman explained.

Prem Chopra nodded. The salesman demonstrated the gait, grip, movement and some programmed functions. Everything was well tuned and fixed. Prem Chopra seemed satisfied with the deal.

“I must tell you, like all robots, and adhering to the discipline of robotics, Ram Singh has an in-built system of three principles: the robot will obey his master, the robot will not harm humans; and the robot will not take harm to self.”

Prem Chopra heard the first principle and it impressed him. He did not take notice of the other two. He nodded delightedly and assigned the sale deed and contract of ‘no misuse of the robot’. He had now got a servant and an accomplice.

“If Ram Singh 070, my robot, can shop for groceries, then why not for better things like jewels”, thought Prem Chopra.

In the market, robots carrying heavy packets, buying theatre tickets, carrying groceries to the cars were a common sight but still strange and amusing servants. Ram Singh – 070 was thoroughly efficient. With tremendous speed and accuracy, he collected the groceries into the shopping trolley and paused for the next command. “Two kilograms of mangoes – ripe and juicy,” commanded Prem Chopra from a distance, seeing a huge pile of mangoes. In no time Ram Singh-070 had selected the best ones.

“Pay at the cash counter,” Prem Chopra spoke into the commander.

Ram Singh – 070 followed Prem Chopra like a faithful dog when he stopped at Gopal Jewellers. Through the glass window he saw a generous display of gold ornaments. Quickly Prem Chopra disappeared around the corner and spoke into the remote control – softly and clearly. “Pick up a necklace and hide. No noise. Information not to be revealed. Top secret. Otherwise I will diffuse your system,” he threatened.

Ram Singh – 070 moved inside the shop, close to the counter. His metallic palm extended forward silently and a necklace went into the storage unit without a clink or a jingle. Nobody took notice.

From expensive antiques to ornaments and precious stones, the shop-lifting went on for some days without any trace of anxiety and recognition in the beginning. But the confused reactions of shop-owners gradually became louder. Unaware, Prem Chopra went on with his shop-lifting spree until a young fruit vendor noticed an expensive bunch of Afghani grapes disappearing inside the metallic blue robot. The incident was related all over and no sooner had they heard than some shop-keepers recalled the presence of a metallic blue robot in their shops before their valuables were missing. This information reached the police head quarters in no time.

One day Prem Chopra guided Ram Singh – 070 to Jhaveri Brothers for lifting precious gems. The police was waiting in readiness and the computerized cameras capable of split second recording, clicked him in the act. Ram Singh robot was caught, but Prem Chopra fled as soon as he saw, through the binoculars, two persons noting down Ram Singh’s license number printed on his metallic neck.

Prem Chopra was arrested from his home, as the owner of Ram Singh-070 - the thief.

Soon after his arrest, Prem Chopra was released on bail until the court hearing. None of the stolen articles were recovered from his house.

He had cleverly disposed them off through his gang. In the court he denied all the charges.

“Someone else seems to have tampered with Ram Singh-070’s programs. The police found me at home,” he argued.

Counsel Goel cleared his throat and reached closer to the judge. “Considering Mr. Chopra’s explanation and the happenings of the last few days when so many jewellers and curio dealers have been affected, it seems important to know the working of Ram Singh robot. I request Ram Singh robot to be called in the court.

“Robot goes to court” were the headlines in the next day’s papers.

The next day, the court was overcrowded with people keen to watch a robot in the witness box. Counsel Goel was ticking off points till the last moment. He appeared confident and crisp but so was Prem Chopra. Never would this machine man betray his master. The proceedings began and Ram Singh-070 appeared in the witness box.

“Your honour,” counsel Goel began, “I am told by Super Robots that the memory tape designed in these types of robots contains information of the previous week.”

“But the case started a fortnight after the incident; the needed information must be wiped out,” the judge said.

Counsel Goel smiled softly staring at Prem Chopra. “Sir, the robot has been switched out of operation ever since.”

Prem Chopra’s face fell but he was confident Ram Singh-070 would obey his master. The secrets were sealed.

“You may continue,” ordered the judge.



Counsel Goel turned to Ram Singh robot. "Who is your master?" he asked briefly. A dull blue light flashed and after a momentary whirring sound, the robot squeaked in his metallic tone, "Mr. Prem Chopra."

"What did you do for Mr. Prem Chopra?"

A pause, a whir, then a metallic answer, "Cleaning, mowing the lawn, washing, doing dishes, shopping..."

"Recall in detail your activities of last six days," counsel Goel interrupted.

The memory tape went on mechanically and monotonously - "Opened the boot of the car, emptied the grocery, shut the boot, turned, moved thirty steps, stopped, curio shop on the left, instruction signal - blank - moved left, turned, twenty steps..." At this point the counsel commanded, "Stop, reverse and play." Again there was an obvious pause after the instruction signal.

Counsel Goel stopped the tape. "Notice the pause, your honour. Some action is not revealed. What were those instructions? Who gave these instructions?" he questioned Ram Singh-070.

"Information not to be revealed," he responded.

"But why?"

"Robots do not disobey masters."

"Several people who have suffered losses will be harmed if these instructions are not reported. What were those instructions?" counsel (lawyer) Goel persuaded.

"Robots do not harm people," Ram Singh-070 responded mechanically.

"Many, many people have suffered. Speak up, Ram Singh-070," Counsel (lawyer) Goel stressed each word.

"No, Ram Singh," Prem Chopra shouted nervously but the judge warned, "Keep quiet."

"Come on Ram Singh-070," the judge said. Ram Singh-070 jerked his head left, then right towards the judge.

A clicking sound indicated the hampering of running tapes and jamming of caution signals - pip-pip, pip-pip. The crackling sound and the indigo light intensified. A red light flashed on the forehead of Ram Singh robot signaling "Danger. Reporting system failed." Tiny shutters in the center of his chest opened displaying a small TV screen flashing. "SYSTEM DISINTEGRATED." Ram Singh robot had defused.

"Oh, no," cried the salesman of Super Robots. "He is defused, he is dead. There was a hush in the court room. Silence prevailed for long in the court room. The Counsel cleared his throat and said, "Robots do not cause harm to people and neither can they disobey their masters. Those instructions from Mr. Prem Chopra were not to be revealed. They could have been injurious to his own existence - a threat to the robot's life. If he revealed them, he would disobey his master; if he did not, he would harm others. This conflict brought Ram Singh's end. He chose to break apart rather than to tell a lie, hurting human beings or becoming unfaithful." Traces of pain and depression marked the counsel's face.

The judge pondered for a while and proclaimed, "The court declares Prem Chopra guilty of theft!"

The counsel picked up his file and with a bow left the court room.

## Glossary

**grinned** smiled widely **salesman** a person whose job is to sell things **respond** reply **purchase** buy **speciality** a special quality **manufacture** produce, the process of making products in a factory **efficient** effective, fruitful **construction (n)** structure, the process of building something **construct(v)** build, make up **counsel** lawyer/advocate **plumbing** a system of pipes that carries water through a building **caretaker** a watchman, a person who takes care of buildings while the owner is not there **design (v)** to plan **design(n)** blueprint, plan, strategy **specialized** made for one particular purpose **fluorescent** very bright **dome shaped** a large rounded ceiling that is shaped like half of a ball **threshold** edge, the point at which something changes **metallic** relating to a metal, of a metal **bewilder** to confuse very much, puzzle **isolated** separated from others **function** act, work **tend** take care of **household** all the goods in a house **pause** a short interval **breathe** to take air into the lungs **radius** a straight line from the center **nod** to move head up and down **gait** a particular way of walking **grip** hold tightly **satisfy** to cause to be happy **adhere** to stick to something **robotics** relating to robots **assign** to give someone a particular duty **deed** act, action **sale** an act of selling something, trade **accomplice** a person who helps someone who is doing something wrong or illegal **tremendous** very large **accuracy** the ability to work without making mistakes **generous** kind, liberal **display** show, to put where people can see it **diffuse** scatter, spread out over a large stage **threaten** ધમકી આપવી **extend** stretch **antique** old and valuable **recognition** ઓળખ **trace** ચિહ્નો/indication **expensive** dear, costly **valuables** things of high value **remain** stay **split** divide into parts **fled** ran away from danger **release** set free **allegation** charge, accusation આજ્ઞા, આરોપ **curio** a small and unusual object that is attractive **tick off** rebuke **crisp** dry, hard and easily broken **betray** double cross **proceeding** action **wipe out** rub out, black out **briefly** in short **flash** shine of bright light **momentary** brief, temporary **whir** buzz, flutter **squeak** a sharp, high pitched sound **mow** ઘાસ કાપવું **reverse** opposite to the front **obvious** easy to see **hamper** to slow the movement **jam** to fill completely, crowd **crackle** to make a series of sharp sounds **intensify** strengthen, to become stronger **disintegrate** to break into pieces **prevail** win, conquer, triumph **conflict** a struggle for power, property, etc **proclaim** declare **hush** peace, silence

### I feel...

- Make a list of the sentences that you didn't like about Prem Chopra.
- What would you do if you have a robot like Ram Singh 070.
- Underline the words/phrases narrating Ram Singh's conflict.
- Discuss in the class 'Are robots a blessing or a curse?'
- Underline the sentences that Ram Singh spoke in his defense in the court.
- Which quality of Ram Singh did you like most?

## Vocabulary

### V.1 Circle the word which is an outsider in each set.

- |              |          |           |         |
|--------------|----------|-----------|---------|
| 1. generous  | cruel    | kind      | liberal |
| 2. function  | act      | plan      | work    |
| 3. deed      | action   | display   | act     |
| 4. assign    | design   | blueprint | plan    |
| 5. sell      | purchase | buy       | pay     |
| 6. expensive | cheap    | dear      | costly  |

**V.2 Replace the underlined words and make meaningful sentences with the help of words given in the box.**

speciality, generous, salesmen, efficiently, bewilder

1. Nisarg visited a shopping mall. He saw many persons who sell things in the various sections of the mall.
2. Khaleda is a brilliant student. She has a special quality in drawing.
3. If you want to perform best, you will have to do your work effectively.
4. We are confused very much.
5. Mother Teresa was a kind woman.

**V.3 Match each word given in A with its opposite given in B.**

- A:** (i) beautiful ( )                      (ii) cheap ( )                      (iii) interesting ( )  
           (iv) relaxing ( )                      (v) wrong ( )                      (vi) efficient ( )
- B:** (a) inefficient                      (b) stressful                      (c) expensive                      (d) right  
       (e) ugly                                  (f) dear                              (g) boring                              (h) dangerous

**V.4 Number these sentences to show the order in which the events occurred.**

- ☐ He pleaded guilty.
- ☐ He was charged with drink and driving.
- ☐ He was fined and banned from driving for two years.
- ☐ He was stopped by the traffic police.
- ☐ He went on a long drive with his friend on his eighteenth birthday.
- ☐ They arrested him.

**V.5 Complete the table with the words for act, actor and action. One is done for you.**

Act	Actor	action
forgery	forger	forge
murder		
		burgle
blackmail		
	kidnapper	
		smuggle

**Now use any two words from each column in your own sentence.**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_

**V.6 Tick mark True(T) or False(F). Correct, if false.**

1. If you are innocent, you are not pleaded guilty. 

T	F
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2. If you park your car in a 'parking area', you have to pay fine. 

T	F
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3. To arrest means that the police come and take somebody away because they think that he/she is guilty. 

T	F
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4. People who sell drugs are called a stockist. 

T	F
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5. A convict is a person who pleads for the accused. 

T	F
---	---

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6. If you kill, rob or threaten someone, it is called a crime. 

T	F
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**V.7 Unscramble the letters in part A and match the word with the description.**

No	Part A	The word	Pair	Description
1.	borotisc	robotics	1-B	to slow the movement of a robot. (A)
2.	kraccele			relating to robots (B)
3.	sasign			shine of bright light (C)
4.	haslf			to give someone a particular duty (D)
5.	tensiinfy			to become stronger (E)
6.	mphera			to make a series of sharp noise (F)

**V.8 Frame sentences using all the words. You may change the forms of the words if needed.**

**Sample: manufacture – robot – efficient.** *We manufacture efficient robots for household work.*

1. design – work . \_\_\_\_\_
2. pause – breath – continue. \_\_\_\_\_
3. assign – nod – deed. \_\_\_\_\_
4. accuracy – excellent. \_\_\_\_\_
5. woman – generous. \_\_\_\_\_

**V.9 Use the proper word at a proper place to make meaningful sentences.**

1. My friend met the land owner and the sale deed. (designed / assigned)
2. The secretary explained her boss the agenda of the meeting. (briefly/ brief)
3. A red light on the Mayor's car was. (flashing / shining)
4. Peter was on bail and went to Rajasthan. (released/ free)

## Comprehension

**C.1 Make a list of activities/work done by the robot on Prem Chopra's command. One is done for you. ¶¶**

*Sample: Collected groceries into the trolley*

**C.2 Tick mark the most appropriate option.**

- What kind of robots are not made by the Super Robot Plaza?  
 (a) helping in homes (b) helping in business  
 (c) helping in robbery (d) helping in personal activities
- What will Ram Singh do according to robotics?  
 (a) hurt people (b) injure himself (c) steal something (d) follow the command
- Prem Chopra was arrested because \_\_\_\_\_  
 (a) he had stolen things (b) his robot had stolen things  
 (c) he had threatened the robot (d) he was the owner of the robot
- Which of the following is not true?  
 (a) Ram Singh does not harm people (b) Prem Chora does not harm people  
 (c) Ram Singh follows his master's command (d) Prem Chopra threatens Ram Singh

**C.3 Write "That's great", "Well done", "Very bad/how bad", "Oh! It's a shame", "That's wonderful", "How surprising", "Really amazing" as responses to the sentences. One is done for you.**

- |   |                 |
|---|-----------------|
| 1. The silver robot said, "Welcome to Super Robot Plaza, sir."  | Really amazing! |
| 2. That metallic blue robot is perfectly programmed to carry out all kinds of household functions.      |                 |
| 3. It operates within the radius of a kilometer.  |                 |
| 4. Ram Singh 070 carried out his work with tremendous speed and accuracy.                               |                 |
| 5. The robot paid the bill at the cash counter.   |                 |
| 6. Ram Singh 070 picked up a necklace and hid it in the storage unit.                                   |                 |
| 7. The computerized cameras capable of split second recording clicked Ram Singh in the act of stealing. |                 |
| 8. Prem Chopra refused all the allegations put on him.  |                 |
| 9. Robots will never cause harm to human beings.  |                 |
| 10. Prem Chopra pleaded guilty.   |                 |

**C.4 Read the text carefully and find out the sentences having similar meaning to these sentences. Write the number of these sentences in the margin near the similar sentence in the read.**

- There were a number of metallic, silver, electric blue and green robots in the right corner.
- Prem Chopra ordered the robot to buy two kgs. of ripe, juicy mangoes from a huge pile.
- With the help of remote control, Prem Chopra asked the robot to steal and hide a necklace.
- The master warned the robot to defuse his system if he disclosed any facts.



5. Counsel Goel pleaded with the court to summon Ram Singh 070 to the court.
6. The court was full of people who were very eager to see a robot in the witness box.
7. Prem Chopra was confident that his servant would never break his faith in him.
8. The robot always obeys the masters.

**C.5 Rewrite the passage replacing the underlined words with those given in the bracket.**

[in no time/ paused/ collected/ commanded/ heavy packets/ calledback/ selected/ carrying/ groceries/ thoroughly efficient/ amusing servant/ a common sight/ obedient worker]

In the market the robots carrying very big boxes buying tickets, taking food items, to the cars were a general scene but still strange and wonderful helpers. Ram Singh-070 was very capable with tremendous speed and accuracy, he gathered groceries into the shopping trolley and waited for the next command. “Two Kgs. of mangoes- ripe and juicy” pleaded Prem Chopra from a distance, seeing a huge pile of mangoes. Very quickly Ram Singh-070 had sorted out the best ones.

**C.6 Answer these questions.**

1. What kind of Robots are made by Super Plaza?

Ans: \_\_\_\_\_

2. Who greeted Prem Chopra at the hall?

Ans: \_\_\_\_\_

3. What did the salesman check before giving the robot to the customer?

Ans: \_\_\_\_\_

4. Which principles govern Ram Singh's behaviour?

Ans: \_\_\_\_\_

5. What instructions were given to the robot for picking up necklace?

Ans: \_\_\_\_\_

6. What did Prem Chopra think after buying the robot?

Ans: \_\_\_\_\_

7. Why was Prem Chopra given bail?

Ans: \_\_\_\_\_

8. Why was Prem Chopra confident when Ram Singh was called to the court?

Ans: \_\_\_\_\_

9. What did Ram Singh do with himself at last?

Ans: \_\_\_\_\_

**C.7 Write short notes.**

1. Ram Singh-070 - the human robot.
2. Conflict of Ram Singh-070 with itself.

**C.8 Reflect your views.(You may use your mother tongue.)**

\* What would you have done if you were Ram Singh?

\* If you were Prem Chopra, would you have done what Prem Chopra did? What would you have done?

\* Suppose you are creating a Robot. What kind of a robot will you create?

\* What would you do if ...

(1) you find a purse on the road?

(2) someone has stolen your shoes?

## Language Practice

*Function: Exchanging Niceties*

**L.1 Read the conversations carefully. Select appropriate intention of the speaker from the list given at the end of all conversation samples. Write down their numbers in the box against each conversation. One is done for you.**

	Conversation
<b>A</b>	<b>Hirva</b> : Hello, I'm Hirva Shashtri. <b>Kishor</b> : Hi! My name is Nandkishor Mistry. But you can call me Kishor. <b>Hirva</b> : Nice to meet you, Kishor. <input type="text" value="12"/> <b>Kishor</b> : Nice to meet you too. Sorry, can you tell me your last name again? <input type="text" value="3"/> <b>Hirva</b> : Shashtri ... Hirva Shashtri.
<b>B</b>	<b>A</b> : Excuse me! Can you show me the way to the Post Office? <input type="text"/> <b>B</b> : Ya... sure. Take the first right and then second left. <b>A</b> : Thank you so much. <b>B</b> : You're welcome. <input type="text"/>
<b>C</b>	<b>Rehan</b> : How is your preparation for the exam today? <b>Harsh</b> : Maths exam is always tough for me. <b>Rehan</b> : Best of luck! <input type="text"/> <b>Harsh</b> : Same to you. <input type="text"/>
<b>D</b>	<b>Nisha</b> : Hey Parag, do you know that Sana's grandmother passed away? <b>Parag</b> : Oh... when? Sana has her internal exam today. <b>Nisha</b> : Last night. <b>Parag</b> : Oh, I'm so sorry for her. <input type="text"/> <b>Nisha</b> : I'm afraid she would miss her exam too. <input type="text"/>
<b>E</b>	(Announcement at the railway station) May I have your attention please? The train number 19334 Valsad-Ahmedabad <input type="text"/> Gujarat Queen Express which is scheduled to arrive at 4:55 is running late by 35 minutes. The inconvenience caused is deeply regretted. <input type="text"/>
<b>F</b>	<b>Soha</b> : Hi, Tapan. How are you? <b>Tapan</b> : I am fine. How about you? <b>Soha</b> : I am fine too. Thank you. By the way, meet my cousin Shivani. <input type="text"/> <b>Tapan</b> : Hello Shivani, nice to meet you. <b>Shivani</b> : Nice to meet you too. <b>Tapan</b> : Where are you from, Shivani? <b>Shivani</b> : I'm from Raipur. <b>Tapan</b> : Sorry/Pardon? <input type="text"/> <b>Shivani</b> : Raipur, Chhattisgarh. <b>Tapan</b> : Oh, great. Shivani, do drop in at my place. We will have a cup of coffee together. <b>Shivani</b> : That's so nice of you. Thank you. <b>Tapan</b> : Have a nice stay in Bhavnagar! Bye!

<b>G</b>	[on a dinner table]
	<b>Vikas</b> : What would you have, Gopa? Plain Chapatti or Chapatti with Ghee?
	<b>Gopa</b> : <u>Either please!</u> <input type="checkbox"/>
	<b>Vikas</b> : Juhika, have you got enough gravy in Sabzi?
	<b>Juhika</b> : Yes, <u>that's fine</u> , thanks. <input type="checkbox"/>
	<b>Vikas</b> : Gopa, would you have another Chapatti?
	<b>Gopa</b> : <u>That would be great!</u> <input type="checkbox"/>
	<b>Vikas</b> : And Gopa, would you like some more sabzi?
	<b>Gopa</b> : No thanks. <u>I have enough.</u> <input type="checkbox"/>
	<b>Vikas</b> : What about you Juhika? Should I give you some more sabzi?
	<b>Juhika</b> : No, <u>I am good</u> . Thanks. <input type="checkbox"/>

### Intention of the speaker

1. Accepts the offer happily.	7. Feels that it's not good news for the listener.
2. Conveying good wishes.	8. Greets/Wishes someone.
3. Didn't listen to what s/he said. Want to get something repeated.	9. Happy to help.
4. Don't like that it happened. Or Sorry that someone will face trouble because of you.	10. S/He is okay with anything.
5. Feels s/he is interrupting/disturbing someone.	11. Wants all to listen carefully. Something important is to be said.
6. Feels someone's pain.	12. Wants to greet someone on meeting for the first time.
	13. Wants to open a new topic or add information.
	14. Wants to say 'No' politely.

### L.2 Replace the intention of the speaker (mentioned in the brackets) with the appropriate expression to complete the conversations.

- A: (Interrupting someone), where can I meet the principal of the school?

B: She must be in her office on the first floor.

A: (Wants to express gratitude for giving information).
- A: Hey friends, let's go for dinner somewhere tonight.

B: (Likes the idea. Excited to go.)

A: (Wants to open a new topic), what happened in Pro Kabaddi today?

B: No idea. I couldn't watch the match.
- A: Do you have any choice in hot drinks?

B: I don't know what they serve.

A: Most probably only two popular choices would be available.

B: In that case (can have anything).
- A: Hi, how's life? long time no see?

B: Actually, I am busy preparing for the final exams.

A: (Wants to open a new topic/subject) meet my guest, Manav.

B: (Greets the guest on first meeting).
- A: These Laddus are delicious.

B: Have one more then.

A: (Wants to say 'no' politely).

**L.3 Read the situations and match them with appropriate expressions given in A. You may have to use the expression more than once.**

A			
1. Nice to meet you	2. Excuse me	3. I'm so sorry	4. I'm afraid
5. Deeply regretted	6. By the way	7. Sorry/Pardon	8. Have a nice stay
9. Either please	10. That's fine	11. That would be great!	12. I have got enough
13. No, I am good.			

Situations	No. of the expressions from A
a) Your friend introduces you to her cousin. You shake hands with him/her.	a) _____
b) You are in a town for the first time and want to ask a stranger how to reach the destination.	b) _____
c) Your friend's grandfather has died and you are meeting him the first time after that.	c) _____
d) You have lost a friend's book. You looked for it but couldn't find it. He asks if you have found the book. You want to say no.	d) _____
e) Your friend wanted some help but you couldn't.	e) _____
f) You want to change or introduce a topic.	f) _____
g) Someone is telling something to you. You couldn't understand it properly and want it to be repeated.	g) _____
h) You want to wish someone to enjoy the new place.	h) _____
i) You do not have a particular choice.	i) _____
j) You don't want anything more. You have enough.	j) _____
k) Someone has offered you something and you actually want it.	k) _____
l) You don't need it. You already have it.	l) _____
m) I have it. I don't want more.	m) _____
n) You step on someone's foot unknowingly.	n) _____
o) You are at a dining table. You have finished the dinner. You want to stand up and leave.	o) _____

**L.4 Complete the conversations choosing the right expression from the brackets.**

- A: Hi, I am Firoz.  
B: \_\_\_\_\_, Firoz.  
(Excuse me / Nice to meet you)
- A: Hi, How are you?  
B: I am good. You tell me.  
A: I am good too. \_\_\_\_\_ what are you doing in the evening? (Excuse me/ By the way)  
B: Nothing special.
- A: Have some more Halwa.  
B: \_\_\_\_\_. (I have got enough/No, I am good)
- \_\_\_\_\_, I am in a hurry to reach home. You please carry on with the dinner. I will take leave.  
(Excuse me/ I'm afraid)

- A: Hello, I am going out to get something to drink. What would you like to have-something hot or cold?  
B: \_\_\_\_\_.  
That's so nice of you. (Thank you so much / Either please)
- Mohit:** Aditya, I am going out to get some snacks. Do you want anything?  
**Aditya:** \_\_\_\_\_ I am not hungry.  
(Thank you/ I'm afraid)  
**Mohit:** In that case, can I get you something to drink?  
**Aditya:** \_\_\_\_\_  
(That would be great/ I've got enough)

7. A: Your First name?  
B: Meera.  
A: Age?  
B: 21  
A: \_\_\_\_\_ ? (Pardon/ Sorry)  
B: 21

8. \_\_\_\_\_ I was not able to help. I should have taken your call more seriously. (I'm afraid / I regret)

**L.5 Think of a situation where you can use all expressions given in A, B, C and D. Write down the dialogue and enact it in the class.††**

A	B	C	D
Nice to meet you Excuse me By the way	I'm afraid I'm so sorry for that. Thanks for your concern.	Thank you. Have a nice time! How do you do?	That would be great! I have got enough No, I am good.

## Writing

**W.1 Write a paragraph on My Dream Robot / My Dear Robbu . You may use these points:**

- name • appearance • skills • use • as a friend
- facility • my comfort • special qualities • my pride

**W.2 Observe any one of these machines while it is working. Then write a paragraph in about 75 words on how it works.**

**Name of the machine:** *washing machine, grinder machine, roti-maker, etc...*

**W.3 Read the information and write a paragraph on Aryabhata, India's First Experimental Satellite.🏠**

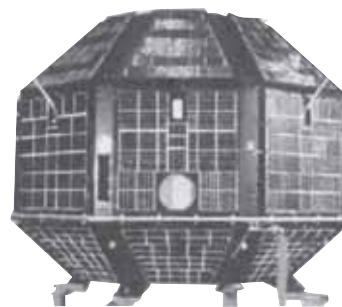
Launch date : April 19, 1975

Weight : 360 kg

Built by : Indian Space Research Organization [ISRO]

Launched by : Soviet Inter-Cosmos Rocket

- Named after the 5<sup>th</sup> century astronomer and mathematician, Aryabhata.
- Was named by the first woman Prime Minister of India Smt. Indira Gandhi
- Reentered the earth's atmosphere after 17 years
- Image on Indian 2 rupee currency notes printed between 1976 and 1977
- Cost more than 3 crore



### Objectives

- To design and make a space worthy satellite system
- To establish infrastructure for the fabrication of space craft system
- To set up ground based receiving, transmitting and tracking systems
- To conduct investigations in the area of space sciences
- To broadcast weather report
- To set up stations required to communicate

\*



## UNIT 3



### Pre-task

**P.1** “*You must be the change that you want to see in the world*”. Do you know who said this? There are people in India who followed these words of Mahatma Gandhi and influenced the lives of many. Let’s read about two such people who, with their small initiatives, changed the lives of many.

**a.** Wastage of water is one of the most serious issues of the country today. But there is one man who decided to help people stop it by helping them single-handedly. Therefore, he is also known as ‘One Man NGO’. The writer, artist and cartoonist Aabid Surti wages war against water wastage. Every Sunday, this national award winner walks around homes in Mumbai and fixes leaking taps to save every drop of water. Wonderful idea, isn’t it? Aabid says “*if I can, you can*”.



**b.** Have you heard about the *Mother of Orphans*? Sindhumati Sapkal is a social worker who has adopted more than 1000 orphan children so far. Her life started as being an unwanted child. Her husband abandoned her when she was nine months pregnant. She had to beg on the streets to survive and realized about the condition of the orphan children. Her circumstances forced her to lose courage and succumb to the adverse situations. But Sindhutai emerged stronger with every difficulty she faced. Today, she proudly says “*I am there for all those who have no one*”.



**P.2** Brainstorm at least two problems or difficulties faced by common people around you. Think of what your group can do to solve them. Share your ideas with the class. One is done for you. 🧑🧑🧑

Problem	Our idea to solve it.
-Plastic bags -Polythene bags	carry paper/ clothe bags while going shopping

**P.3** Study the table about the impact of pollution.

Cause	Effect	Solution
<ul style="list-style-type: none"> <li>• Burning of Fossil Fuels</li> <li>• Agricultural activities</li> <li>• Exhaust from factories and industries</li> <li>• Mining operations</li> <li>• Indoor air pollution</li> </ul>	<ul style="list-style-type: none"> <li>• Respiratory and heart problems</li> <li>• Global warming</li> <li>• Acid Rain</li> <li>• Depletion of Ozone layer</li> </ul>	<ul style="list-style-type: none"> <li>• Use public mode of transportation, conserve energy</li> <li>• Understand the concept of Reduce, Reuse and Recycle</li> <li>• Emphasis on clean(natural) energy resources</li> <li>• Use energy efficient devices</li> </ul>

**Now write five sentences about the solution of air pollution.** You can begin like this ...

We should use public mode of transportation instead of our own vehicle.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_

**Read**

## **AN INTERVIEW WITH ARUN KRISHNAMURTHY**



Arun Krishnamurthy was just 17 years old when he founded the NGO Environmentalist Foundation of India (EFI). Beginning with the Turtle Walk – a move to save turtle eggs and young hatchlings in Chennai, today Arun and his team of volunteers

have cleaned beaches and various water bodies in Chennai, Hyderabad, Delhi, Coimbatore and Puducherry. The team cleans lakes, beaches and zoos, plants trees, educates people through street plays and also makes environment-friendly paper bags. Arun's team has students who joined him when they were in Class – 7 and continued to work with him even after five years.

*Which experience as a child inspired you to take up the cause of the environment? What was your first activity?*

A beautiful lake next to my house, which once had a lot of birds, frogs and snakes, was heavily polluted. It led to the spread of mosquitoes and turned a lovely place into an ugly neighbourhood. This hurt me badly and I wanted to do something about it. I got together with a couple of my friends and cleaned the pond next to my house. This was the first activity.

*What kind of support did you get from your parents and teachers? Was there any conflict between study-time and activism?*

I have supportive parents who understood that my interest was the environment. They have never stopped me from doing what I want. On my part, I also made sure that I did not fail my parents in any way. I always informed them about everything that I did and took their advice before

jumping into actions. I have teachers who taught me how to go about things. They also taught me humility – so that I did not become snobbish or arrogant and start thinking I was a superstar because I was doing all this environment work. They taught me to be simple and keep learning all the time. I am not an activist, I am an environmentalist. I have learnt so much by doing this work.

*How did your school and college further your interest?*

Both my school and college had plenty of green cover and both were home to several other life forms. This made me understand their importance, how beautiful they are and why we need to protect them. These animals are on their own, find their own food and are always active, on the move and never lazy. It is so positive; we have a lot to learn from them.

*Did you feel any hesitation in quitting a*

*well-paying job and venturing into this full-time? What were the options you weighed before you arrived at your decision?*

It is always good to decide in favour of what you really love to do. I quit my job at Google, but I still keep in touch with my friends there. So only my duties at Google have come to an end, not my emotional bond.

I understood that I had to leave the job at that minute in 2010, or else I would never be daring enough to do so. I could not sit back and enjoy life when environmental damage was happening on such a large scale. I wanted to do something and that something needed my full attention. So I left Google for EFI.

*What kind of garbage do people throw into water bodies? How do you deal with the removal of this garbage once you clean the waterbody?*

Everything from a diaper to worn out slippers – we find everything in our lakes. This is so disturbing because it is water and water is the basis of life. How can we not care for these water bodies? We use this garbage for landfill with no or minimal exposure to the outside environment. We ensure that the lake area and water-holding are free of garbage so that birds, frogs and snakes can live in peace.

*How many days does it take to clear a large lake? Do you use any special equipment for cleaning and safety?*

Depending on the size of the lake and the amount of garbage, it can take anywhere between 5 days and 3 months to completely clean a lake. We have our tools like rakes and spades.

*What kind of protective gear do you use?*

*Can you describe the cleaning process briefly?*

We wear nose masks, sanitary gloves and carry rakes and spades with which we collect the garbage and dump it into collection buckets which are taken to the garbage truck. We also use heavy machinery like earth movers and Poclain to desilt the lake and clear the weeds and shrubs that are harmful.

*What, in your opinion, can children and young adults do for the environment? What could be a small beginning by all of us in terms of protecting the environment?*

Firstly, we should all stop throwing trash outside our homes. Next, we should reduce the amount of trash we generate. Strows, tissues, wrappers, batteries, fast food junk, all these end up in lakes and they come from our homes. If we can reduce the amount of garbage at home and if we can dispose all garbage safely, that itself is a great deal. Every student is welcome to volunteer with us in helping the environment.

*How much time do school-going children need to devote, in say a week, for an environmental cause?*

Four hours a weekend – that is two hours on Sundays and two hours on Saturdays. This small beginning is more than enough to ensure larger participation later.

*How can students and schools join your fraternity? Do you have any programmes to introduce your work to them?*

Yes, we offer fellowships to interested students. Our programme looks at young animal lovers, young wild life photographers, film-makers, theatre artists and scientific researchers. We give them training in these areas and get them actively involved in all our work. Our youngest volunteer is in Class 3.

## Glossary

**environmentalist** પર્યાવરણવિદ્ a person who works to protect the natural world from pollution and other threats **wage** begin or continue a war **turtle** tortoise કચ્છો **volunteer** person doing some unpaid service willingly **beach** a sea-shore **water bodies** lakes, rivers etc. **environment** the natural world પર્યાવરણ **environment friendly** પર્યાવરણને નુકશાન ન કરે તેવું **planet** a large round object in space such as the earth **cause** something or someone that makes something happen **polluted** dirty પ્રદુષિત **conflict** a struggle **humility** the quality or state of being humble **snobbish** દંભી **arrogant** having insulting attitude અહંકારી **activist** a worker કાર્યકર **further** help the progress of something **hesitation** ખચકાટ **quit** leave ( a job, school etc.) **venture** to start to do something new that is risky **weighed** thought carefully about something to make a decision **bond** relationship **large scale** મોટાપાયે **diaper** બાળોતિયું **landfill** a system under which waste materials are buried under the ground **worn out** too old or damaged **exposure** public attention and notice **equipments** tools **rake** a tool **spade** a tool **protective gears** tools that are used to protect from dirt and infection **dump** to put something somewhere in a careless way **weed** a useless plant **shrub** woody plant **trash** things that are no longer useful **devote** offer **enterprise** an activity that involves many people that is often difficult સાહસવૃત્તિ, જોખમીકાર્ય

### I feel...

- How do you feel when you see people throwing garbage around?
- What would you do to inspire young people to work for the cause of environment?
- Which qualities of Arun would you appreciate?
- As a student what would you advise your schoolmate to keep your school surrounding clean and neat?
- Usually do people keep a village pond clean? If 'No' what will you do to keep it clean? Present your group's idea to the class. 🧑🧑🧑

## Vocabulary

### V.1 Use the words from the box to complete this text about environmental problems.

polluted, disposal, layer, green house, environment, resources, deforestation, removal, garbage

Pollution is a major problem of our times. Air, water and land all are \_\_\_\_\_. Poor waste \_\_\_\_\_ is to blame for many of the problems. Pollution of the atmosphere has led to the destruction of ozone \_\_\_\_\_ and \_\_\_\_\_ effect. Moreover we are wasting our natural \_\_\_\_\_. The act of \_\_\_\_\_ has also created many problems. Each of us has to act sincerely to protect our \_\_\_\_\_.

### V.2 Match A with B and form a sentence (of more than four words) using both the words. One has been done for you. 🧑🧑

No	Part A	Part B	Sample
1	mosquitoes	paper bags	Generally mosquitoes spread malaria in monsoon.
2	supportive	a job	_____
3	quit	malaria	_____
4	removal	clothes	_____
5	worn out	garbage	_____
6	team	parents	_____
7	environment-friendly	volunteers	_____

**V.3 Find and write the words having similar meaning from the first three paragraphs of A. Krishnamurthy's interview.**

- |                        |                        |
|------------------------|------------------------|
| 1. established - _____ | 6. few - _____         |
| 2. sea shore - _____   | 7. assist - _____      |
| 3. very dirty - _____  | 8. struggle - _____    |
| 4. varied - _____      | 9. beautiful - _____   |
| 5. keep on - _____     | 10. humbleness - _____ |

**V.4 Choose the most appropriate words to complete the sentences.**

volunteer, parent, environmentalist, super star, film maker, chemist, scientific researcher, musician

1. Every \_\_\_\_\_ is worried about the future of her/his son or daughter.
2. A \_\_\_\_\_ works selflessly in the mission s/he joins.
3. People rush in to have a glimpse of a \_\_\_\_\_ wherever s/he goes.
4. Jenil's father is concerned about the environment and does something for it. He is an \_\_\_\_\_.
5. Mr. Aiyer is busy in his laboratory inventing something. He is a \_\_\_\_\_.
6. Ram Gopal Verma produces horror and suspense movies. He is a \_\_\_\_\_.

**V.5 Use the correct form of the words from the box to complete the sentences.**

support, decide, remove, beautify, inform, attend, pollute, devote

*Sample: Your attendance in both the semesters is low so you can't appear at the board exam.*

1. Kalpana Chavla had \_\_\_\_\_ parents that helped her to choose her desired career.
2. The \_\_\_\_\_ of giving text books free of cost to all the students by the government is praiseworthy.
3. Before you pass your S.S.C exam, you should have \_\_\_\_\_ about all the courses after 10<sup>th</sup>.
4. When mummy reached home, she found that everything was set \_\_\_\_\_ in the room.
5. Our request of \_\_\_\_\_ the heap of garbage at the corner of our street was attended to immediately.
6. The government has launched a project to clean \_\_\_\_\_ rivers of our country.

**V.6 Clip- words ¶¶**

Clipping occurs when the original word is reduced to one of its parts, resulting in the formation of a new word. This process is also referred to as 'truncation' and 'shortening.' In clipping, the word is shortened but the meaning remains the same.

*Samples:*

- A **memo** is a brief written message often used in business. It is a clipping of **memorandum**.
- If your pet is sick, you take it to a **vet**. It is a clipping of **veterinarian**.
- A clip for **gasoline** is **gas**.