SHREE VASISHTHA VIDHYALAYA.
Computer Worksheet 2025-26

Name : - _____

Std :- IV - _____

Roll No. :-_____

Worksheet No : CA4 - 01

Date : - _____

Ch: 5 Ch:8 Artificial Intelligence in Smart Homes

Q-1 Tick the (✓) correct answers.

1. What does AI stand for?

   a) Artificial Intelligence   b) Artificial Insects   c) Amazing Internet

2. What can AI do?

   a) Sleep and eat   **b) Think and learn like humans**   c) Grow like a plant

3. Which of these is an example of AI?

   a) A robot that can talk and learn   b) A tree   c) A calculator

4. Which of these devices might use AI?

   a) book   b) A fan   **c) A smartphone**

5. What does a smart home do?

   a) Watches TV for you   **b) Helps with daily tasks automatically**   c) Does your homework

6. What can a voice assistant do?

   a) Help you make a sandwich   **b) Respond to voice commands**   c) Clean your room

7. Which of these is a benefit of using AI in a smart home?

   a) It makes more noise   **b) It helps save energy and increases safety**   c) It uses more electricity

8. Which of these devices might use AI in a smart home?

   a) A calculator   **b) A refrigerator that tells you when food is running low**   c) A regular clock

9. Which of these devices often uses AI in a smart home?

   a) A regular light bulb   **b) A voice assistant like Alexa or Google Assistant**   c) A regular radio

10.   What can a smart security camera do?

   a) Clean the house   **b) Keep a lookout for unusual movements and send alerts**   c) Play music

Q-2 Write True or False.

1. AI in smart homes can learn your habits and make decisions for you.   **True**
2. Alexa is an online shopping app.   **False**
3. A regular doorbell is an example of an AI device.   **False**
4. AI can help control the lights, temperature, and security in a smart home.   **True**
5. Smart homes with AI can work without any internet connection.   **False**
6. AI in smart homes can only be used at night.   **False**

Q-3 Fill in the blank.

1. Smart Homes use AI to make life **easy** and more **comfortable**.
2. LUIS stands for **Language Understanding Intelligent Service**.
3. Using Siri/Alexa we can change the light colour of bulb by giving **voice** commands.
4. Main goal of AI is to copy **human intelligence**
5. Devices like Alexa and Google Assistant are examples of **voice** assistants.

Q-4 Identify and write the name of the following smart home products.

Smart Speaker	**Smart Camera**	**Smart Smoke Detector**
Smart Lock	**Smart Bulb**	**Google voice Assistant**

Q-5 Match the following.

A (Smart Home Feature)	B (What the AI Does)	
1) Smart Thermostat	a. Recognizes your face or voice to let you inside the house.	**1) - b**
2) Facial Recognition Door Lock	b. Learns when you are home and when you are gone to save money by changing the temperature.	**2) - a**
3) Smart Security Camera	c. Turns on the lights when you walk into a room and turns them off when you leave.	**3) - d**
4) AI Lighting	d. Watches for packages being dropped off or alerts your family if it sees a stranger near the house.	**4) - c**