

S D public School, Pitampura

Class – IX (2025-26)

Holiday homework – Artificial Intelligence

All the following activities are part of the internal assessment. For this student will be assessed.

Activity 1: Write a letter/ an email to future self in the word file and save it as pdf.

1. Imagine your future in the next 10 years (related to AI).
2. Type a letter or an email to your future self about what you want to see in the future or what you want to remind to your future.
3. The following points can be included in letter/email:
 - a. Start with your interests, hobbies, and skills.
 - b. Relate how AI can help you
 - c. Write about your career you want to pursue and how AI will make an impact on that.
4. Save the letter/ email in PDF format.
5. Attach **your pdf/image in the project file.**


Activity 2: Share a minimum of five real life ideas about Smart Home and write them on the A4 size sheet as discussed in the class and attach **your pdf/image in the project file.**

Activity 3: How do you think Artificial Intelligence can help you as you go about your daily life? Write them on the sheet as discussed in the class and attach **your pdf/image in the project file.**

Activity 4: Complete the course mentioned on . <https://code.org/oceans> and attach **your certificates** in the project file.

Activity 5: Write the following python programs in IDLE platform.

After **coding execute** the program and take the screenshot of each bug /error free code with its **output. Get the print outs and submit in a file** in the mentioned order.

PRINT	<ul style="list-style-type: none">• To print personal information like Name, Father's Name, Class, School Name.• To print the following patterns using multiple print commands- • To find square of number 7• To find the sum of two numbers 15 and 20.• To convert length given in kilometers into meters.• To print the table of 5 up to five terms.• To calculate Simple Interest if the principle_amount = 2000 rate_of_interest = 4.5 time = 10
INPUT	<ul style="list-style-type: none">• To calculate Area and Perimeter of a rectangle• To calculate Area of a triangle with Base and Height• To calculating average marks of 3 subjects• To calculate discounted amount with discount %• To calculate Surface Area and Volume of a Cuboid

AI and Fun

Play/Observe the given AI Games/Experiments to learn and understand how AI works.

- a. <https://research.google.com/semantis/>
- b. <https://experiments.withgoogle.com/quick-draw>
- c. <https://semiconductor.withgoogle.com/>
- d. <https://www.scroobly.com/>
- e. <https://emojiscavengerhunt.withgoogle.com/>
- f. <https://experiments.withgoogle.com/bird-sounds>