

GREENFIELD PUBLIC SCHOOL, DILSHAD GARDEN

Class XI – Artificial Intelligence Holiday Homework (2026-27)

HOLIDAY HOMEWORK GUIDELINES

- Complete all work neatly in your AI notebook or practical file.
- Use proper headings and date.
- Submit printouts/certificates wherever required.
- Creativity and presentation will carry extra marks.

PART A – IBM SKILLSBUILD CERTIFICATION (COMPULSORY)

All students must complete any ONE certification course from IBM SkillsBuild.

Website: <https://skillsbuild.org/>

1. Introduction to Artificial Intelligence
2. AI Fundamentals
3. Python Basics
4. Data Analytics Basics
5. Cybersecurity Fundamentals

PART B – PYTHON OUTPUT QUESTIONS

Question	Python Program
Q1	<pre>a = 10 b = 5 print(a + b)</pre>
Q2	<pre>name = "AI" print(name * 3)</pre>
Q3	<pre>x = 15 y = 4 print(x // y)</pre>
Q4	<pre>a = 7 b = 2 print(a ** b)</pre>

Q5	num = 20 num += 5 print(num)
Q6	print(len("Artificial"))
Q7	x = [1, 2, 3] print(x[1])
Q8	a = "Python" print(a[0:3])
Q9	print(type(25))
Q10	for i in range(3): print(i)

PART C – CHATBOT PROJECT USING DIALOGFLOW

6. Open <https://dialogflow.cloud.google.com/>
7. Login using your Gmail account.
8. Click on Create Agent.
9. Give your chatbot a creative name.
10. Create intents such as Greeting, Goodbye, AI Information, etc.
11. Add training phrases and responses.
12. Test your chatbot.
13. Take screenshots of your chatbot project.
14. Paste screenshots in your practical file.

PART D – PYTHON PRACTICALS

Practical 1 – Print Your Name

```
name = input("Enter your name: ")
print("Welcome", name)
```

Practical 2 – Addition of Two Numbers

```
a = int(input("Enter first number: "))
b = int(input("Enter second number: "))
print("Sum =", a+b)
```

Practical 3 – Even or Odd

```
num = int(input("Enter a number: "))
if num % 2 == 0:
    print("Even Number")
```

```
else:  
    print("Odd Number")
```

Practical 4 - Multiplication Table

```
num = int(input("Enter a number: "))  
for i in range(1,11):  
    print(num*i)
```

Practical 5 - Area of Rectangle

```
length = int(input("Enter length: "))  
breadth = int(input("Enter breadth: "))  
print("Area =", length*breadth)
```

REFERENCES

- Dialogflow Documentation: <https://cloud.google.com/dialogflow/docs>
- Python Official Website: <https://www.python.org/>
- IBM SkillsBuild Learning Portal: <https://skillsbuild.org/>

 **HAPPY HOLIDAYS & HAPPY LEARNING** 