

# ASSIGNMENT-6.5

BATCH-29

ROLL-NO:2303A51600

## TASK-1

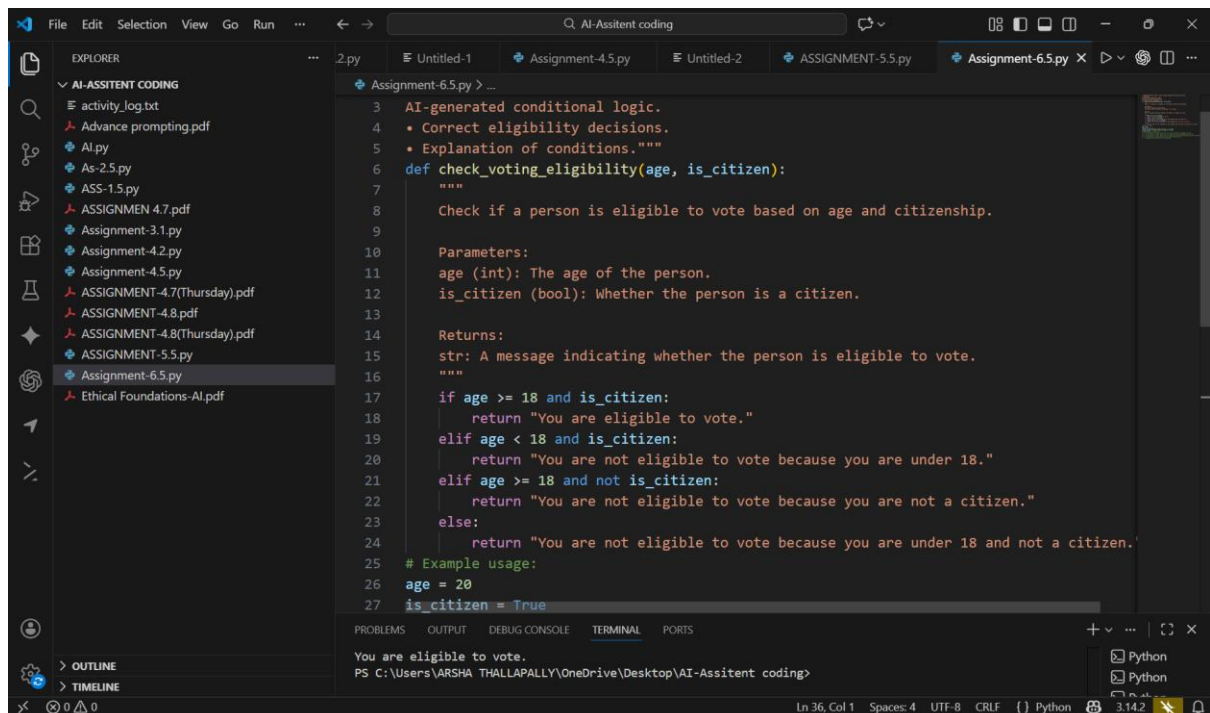
### PROMPT:

Generate Python code to check voting eligibility based on age and citizenship.

AI-generated conditional logic.

- Correct eligibility decisions.
- Explanation of conditions.

### CODE:



The screenshot shows a Visual Studio Code editor window with a dark theme. The Explorer sidebar on the left lists files under 'AI-ASSITENT CODING', including 'Assignment-6.5.py' which is currently selected. The main editor area displays the following Python code:

```
3 AI-generated conditional logic.
4 • Correct eligibility decisions.
5 • Explanation of conditions."""
6 def check_voting_eligibility(age, is_citizen):
7     """
8     Check if a person is eligible to vote based on age and citizenship.
9
10    Parameters:
11    age (int): The age of the person.
12    is_citizen (bool): Whether the person is a citizen.
13
14    Returns:
15    str: A message indicating whether the person is eligible to vote.
16    """
17    if age >= 18 and is_citizen:
18        return "You are eligible to vote."
19    elif age < 18 and is_citizen:
20        return "You are not eligible to vote because you are under 18."
21    elif age >= 18 and not is_citizen:
22        return "You are not eligible to vote because you are not a citizen."
23    else:
24        return "You are not eligible to vote because you are under 18 and not a citizen."
25
26 # Example usage:
27 age = 20
28 is_citizen = True
```

At the bottom of the editor, the 'TERMINAL' tab is active, showing the output: 'You are eligible to vote.' and the command prompt path: 'PS C:\Users\VARSHA THALLAPALLY\OneDrive\Desktop\AI-Assitent coding>'. The status bar at the very bottom indicates 'Ln 36, Col 1', 'Spaces: 4', 'UTF-8', 'CRLF', and 'Python 3.14.2'.

## OBSERVATIONS:

When the prompt given to explain about the condition – it specified

Logic was correctly given

Specifications given in order of the prompt

## TASK-2

### PROMPT:

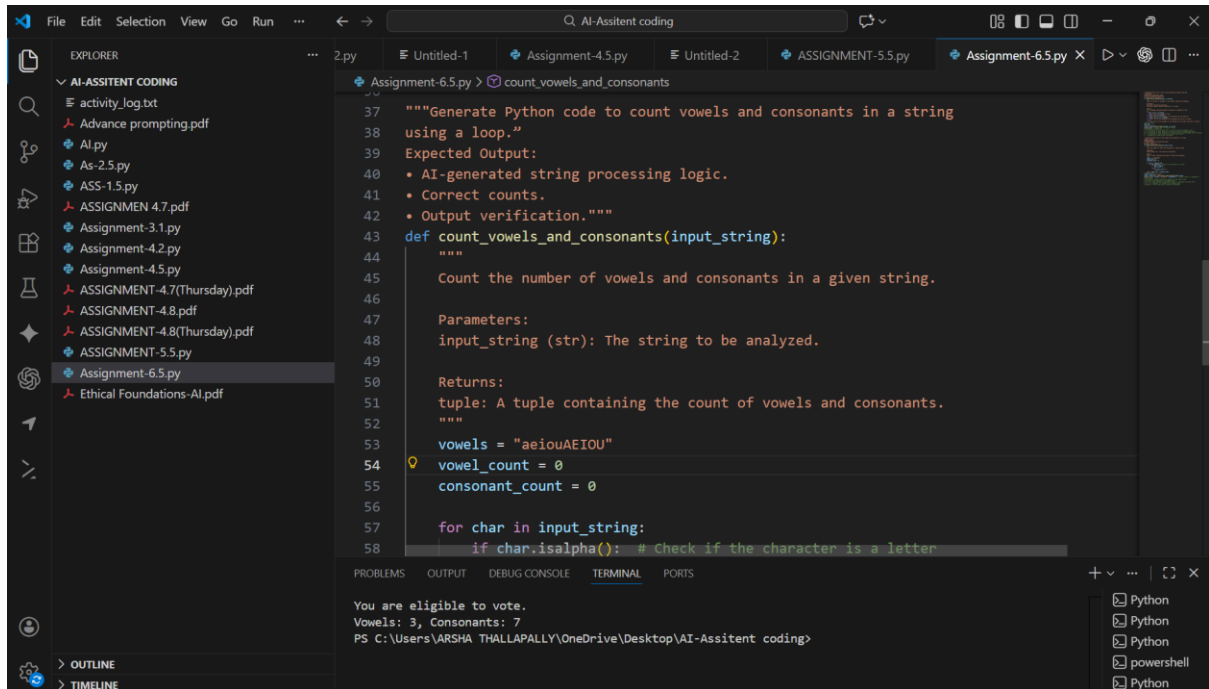
Generate Python code to count vowels and consonants in a string

using a loop.”

Expected Output:

- AI-generated string processing logic.
- Correct counts.
- Output verification

## CODE:



```
37 """Generate Python code to count vowels and consonants in a string
38 using a loop."
39 Expected Output:
40 • AI-generated string processing logic.
41 • Correct counts.
42 • Output verification."""
43 def count_vowels_and_consonants(input_string):
44     """
45     Count the number of vowels and consonants in a given string.
46
47     Parameters:
48     input_string (str): The string to be analyzed.
49
50     Returns:
51     tuple: A tuple containing the count of vowels and consonants.
52     """
53     vowels = "aeiouAEIOU"
54     vowel_count = 0
55     consonant_count = 0
56
57     for char in input_string:
58         if char.isalpha(): # Check if the character is a letter
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

You are eligible to vote.  
Vowels: 3, Consonants: 7  
PS C:\Users\VARSHA THALLAPALLY\OneDrive\Desktop\AI-Assitent coding>

## OBSERVATIONS:

Checking output verification-correct

No explanation as not mentioned in the prompt

Few Test considered like checking alphabets

## TASK-3

### PROMPT:

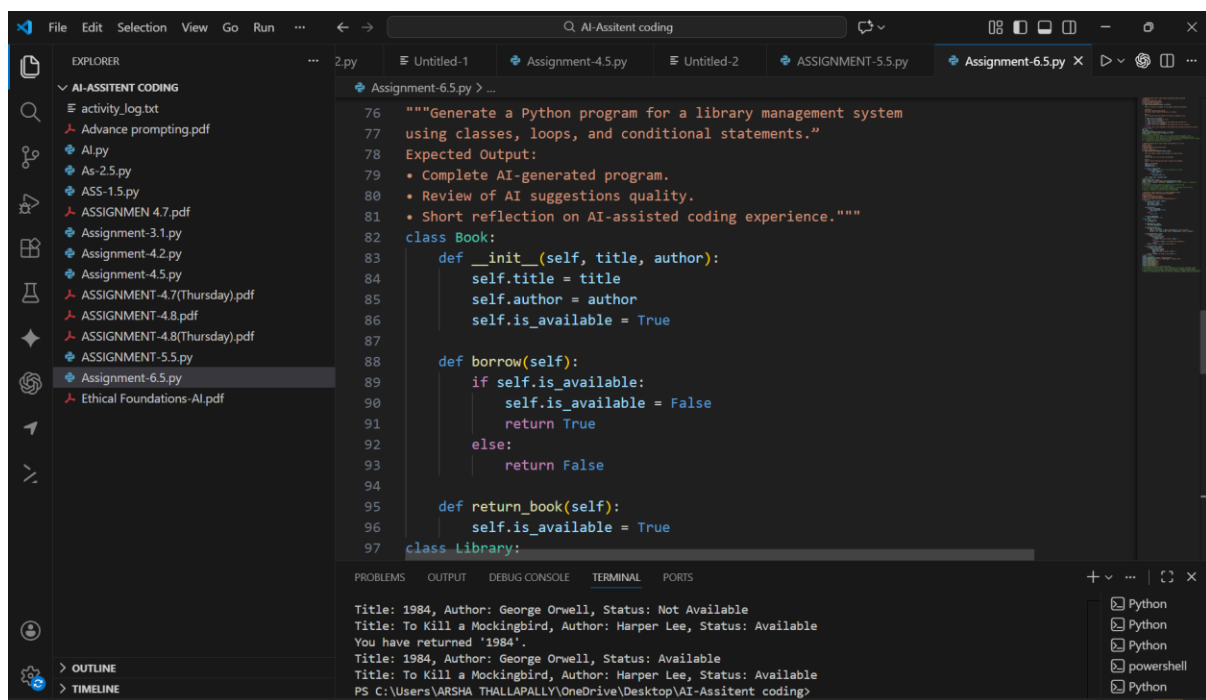
Generate a Python program for a library management system

using classes, loops, and conditional statements.”

Expected Output:

- Complete AI-generated program.

### CODE:



```
File Edit Selection View Go Run ... AI-Assitent coding
EXPLORER
  AI-ASSITENT CODING
    activity_log.txt
    Advance prompting.pdf
    AI.py
    As-2.5.py
    ASS-1.5.py
    ASSIGNMEN 4.7.pdf
    Assignment-3.1.py
    Assignment-4.2.py
    Assignment-4.5.py
    ASSIGNMENT-4.7(Thursday).pdf
    ASSIGNMENT-4.8.pdf
    ASSIGNMENT-4.8(Thursday).pdf
    ASSIGNMENT-5.5.py
    Assignment-6.5.py
    Ethical Foundations-AI.pdf
  2.py
  Untitled-1
  Assignment-4.5.py
  Untitled-2
  ASSIGNMENT-5.5.py
  Assignment-6.5.py x
  Assignment-6.5.py > ...
76 """Generate a Python program for a library management system
77 using classes, loops, and conditional statements."""
78 Expected Output:
79 • Complete AI-generated program.
80 • Review of AI suggestions quality.
81 • Short reflection on AI-assited coding experience."""
82 class Book:
83     def __init__(self, title, author):
84         self.title = title
85         self.author = author
86         self.is_available = True
87
88     def borrow(self):
89         if self.is_available:
90             self.is_available = False
91             return True
92         else:
93             return False
94
95     def return_book(self):
96         self.is_available = True
97 class Library:
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```

Output is clear and neat

Correct and solves few test cases

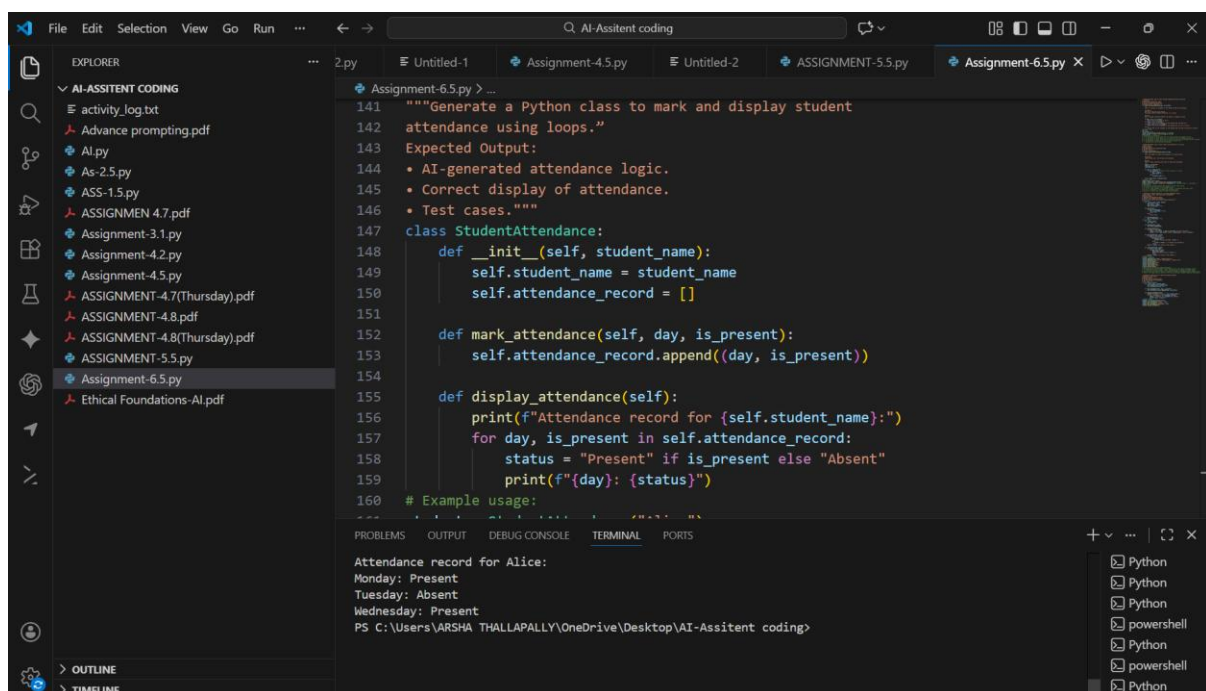
## TASK-4

### PROMPT:

Generate a Python class to mark and display student attendance using loops.”

- AI-generated attendance logic.
- Correct display of attendance.

### CODE:



The screenshot shows a Visual Studio Code editor window with a dark theme. The Explorer sidebar on the left lists files under 'AI-ASSISTANT CODING', including 'Assignment-6.5.py' which is currently selected. The main editor area displays the code for 'Assignment-6.5.py'. The code defines a 'StudentAttendance' class with methods for marking attendance and displaying it. The output window at the bottom shows the result of running the code, displaying the attendance record for Alice.

```
141 """Generate a Python class to mark and display student
142 attendance using loops."""
143 Expected Output:
144 • AI-generated attendance logic.
145 • Correct display of attendance.
146 • Test cases."""
147 class StudentAttendance:
148     def __init__(self, student_name):
149         self.student_name = student_name
150         self.attendance_record = []
151
152     def mark_attendance(self, day, is_present):
153         self.attendance_record.append((day, is_present))
154
155     def display_attendance(self):
156         print(f"Attendance record for {self.student_name}:")
157         for day, is_present in self.attendance_record:
158             status = "Present" if is_present else "Absent"
159             print(f"{day}: {status}")
160 # Example usage:
```

Attendance record for Alice:  
Monday: Present  
Tuesday: Absent  
Wednesday: Present  
PS C:\Users\VARSHA THALLAPALLY\OneDrive\Desktop\AI-Assitent coding>

### OBSERVATIONS:

AI-generated attendance logic-correct

Correct display of attendance-done

Example usage also given

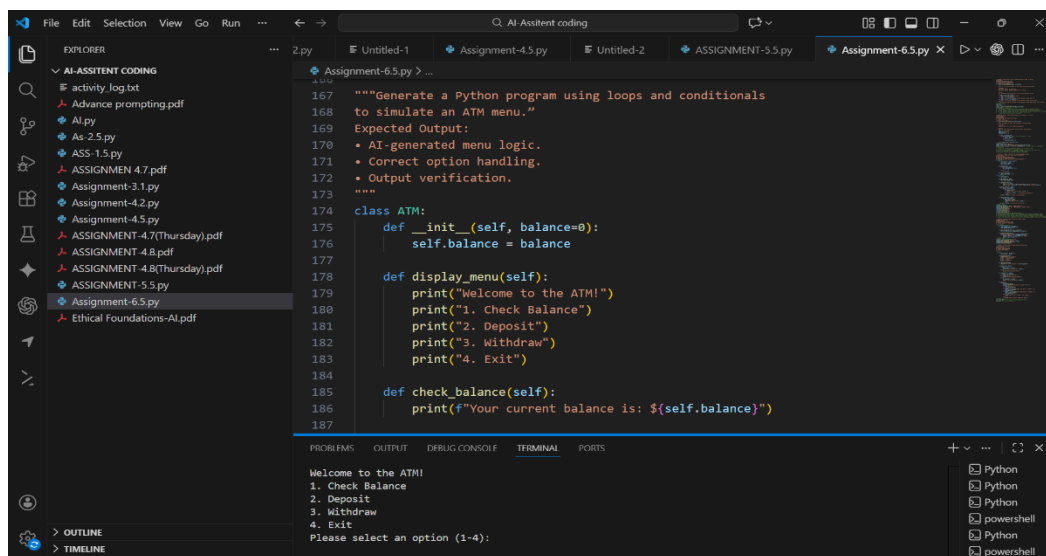
Many variables are considered to solve

Task-5:

PROMPT:

Generate a Python program using loops and conditionals to simulate an ATM menu.”

- AI-generated menu logic.
- Correct option handling.
- Output verification.



```
167 """Generate a Python program using loops and conditionals
168 to simulate an ATM menu."""
169 Expected Output:
170 • AI-generated menu logic.
171 • Correct option handling.
172 • Output verification.
173 """
174 class ATM:
175     def __init__(self, balance=0):
176         self.balance = balance
177
178     def display_menu(self):
179         print("Welcome to the ATM!")
180         print("1. Check Balance")
181         print("2. Deposit")
182         print("3. Withdraw")
183         print("4. Exit")
184
185     def check_balance(self):
186         print(f"Your current balance is: ${self.balance}")
187
```

CO

OBSERVATION:

Logic is optimized one

Option handling is on point

Output is correct

Goes well with the prompt

No violations of prompt seen