

Lab Assignment – 6.5

Hall Ticket No.: 2303A510E6

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Batch – 29

Task Description #1 (AI-Based Code Completion for Conditional Eligibility Check)

Task: Use an AI tool to generate eligibility logic.

Prompt:

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

Expected Output:

- AI-generated conditional logic.
- Correct eligibility decisions.
- Explanation of conditions.

Code:

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

```
def check_voting_eligibility(age, citizenship):
```

```
    if age >= 18 and citizenship.lower() == "yes":
```

```
        return "You are eligible to vote."
```

```
    elif age < 18:
```

```
        return "You are not eligible to vote due to age."
```

```
    else:
```

```
        return "You are not eligible to vote due to citizenship."
```

```
# Example usage
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```
age = int(input("Enter your age: "))
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citizenship = input("Are you a citizen? (yes/no): ")
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```
eligibility_message = check_voting_eligibility(age, citizenship)

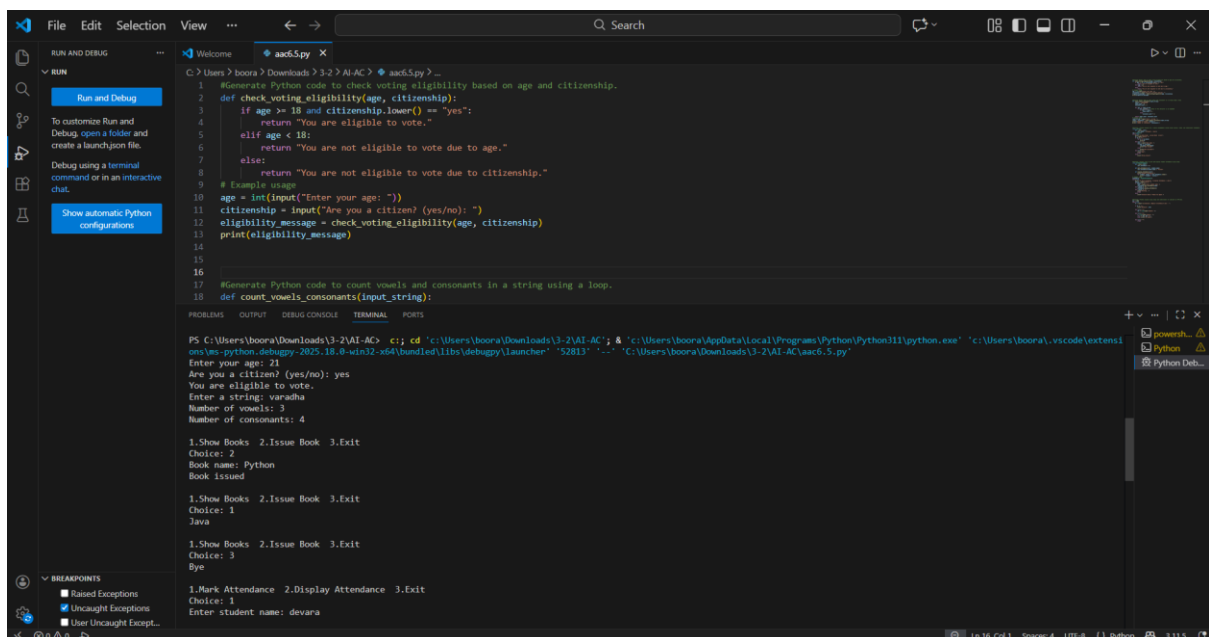
print(eligibility_message)
```

Output:

Enter your age: 21

Are you a citizen? (yes/no): yes

You are eligible to vote.



```
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Welcome
C:\Users\boora> Downloads\3-2\AI-AC> aad5py -
1 #Generate Python code to check voting eligibility based on age and citizenship.
2 def check_voting_eligibility(age, citizenship):
3     if age >= 18 and citizenship.lower() == "yes":
4         return "You are eligible to vote."
5     elif age < 18:
6         return "You are not eligible to vote due to age."
7     else:
8         return "You are not eligible to vote due to citizenship."
9 # Example usage
10 age = int(input("Enter your age: "))
11 citizenship = input("Are you a citizen? (yes/no): ")
12 eligibility_message = check_voting_eligibility(age, citizenship)
13 print(eligibility_message)
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17 #Generate Python code to count vowels and consonants in a string using a loop.
18 def count_vowels_consonants(input_string):
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```

- Output verification.

Code:

#Generate Python code to count vowels and consonants in a string using a loop.

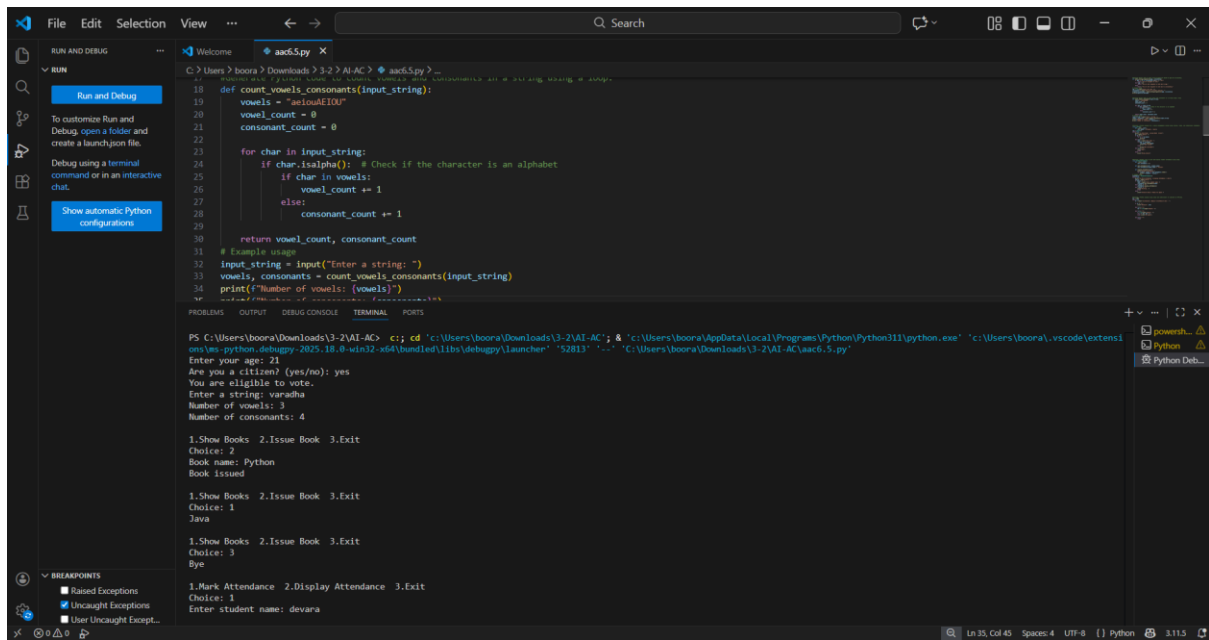
```
def count_vowels_consonants(input_string):  
    vowels = "aeiouAEIOU"  
    vowel_count = 0  
    consonant_count = 0  
  
    for char in input_string:  
        if char.isalpha(): # Check if the character is an alphabet  
            if char in vowels:  
                vowel_count += 1  
            else:  
                consonant_count += 1  
  
    return vowel_count, consonant_count  
  
# Example usage  
input_string = input("Enter a string: ")  
vowels, consonants = count_vowels_consonants(input_string)  
print(f"Number of vowels: {vowels}")  
print(f"Number of consonants: {consonants}")
```

Output:

Enter a string: varadha

Number of vowels: 3

Number of consonants: 4



Task Description #3 (AI-Assisted Code Completion Reflection

Task)

Task: Use an AI tool to generate a complete program using classes, loops, and conditionals.

Prompt:

“Generate a Python program for a library management system using classes, loops, and conditional statements.”

Expected Output:

- Complete AI-generated program.
- Review of AI suggestions quality.
- Short reflection on AI-assisted coding experience.

Code:

#Generate a Python program for a library management system using classes, loops, and conditional statements.

class Library:

```
def __init__(self):
```

```
        self.books = ["Python", "Java"]

lib = Library()

while True:

    print("\n1.Show Books  2.Issue Book  3.Exit")

    ch = input("Choice: ")

    if ch == "1":

        for b in lib.books:

            print(b)

    elif ch == "2":

        book = input("Book name: ")

        if book in lib.books:

            lib.books.remove(book)

            print("Book issued")

        else:

            print("Not available")

    elif ch == "3":

        print("Bye")

        break

    else:

        print("Wrong choice")
```

Output:

1.Show Books 2.Issue Book 3.Exit

Choice: 2

Book name: Python

Book issued

1.Show Books 2.Issue Book 3.Exit

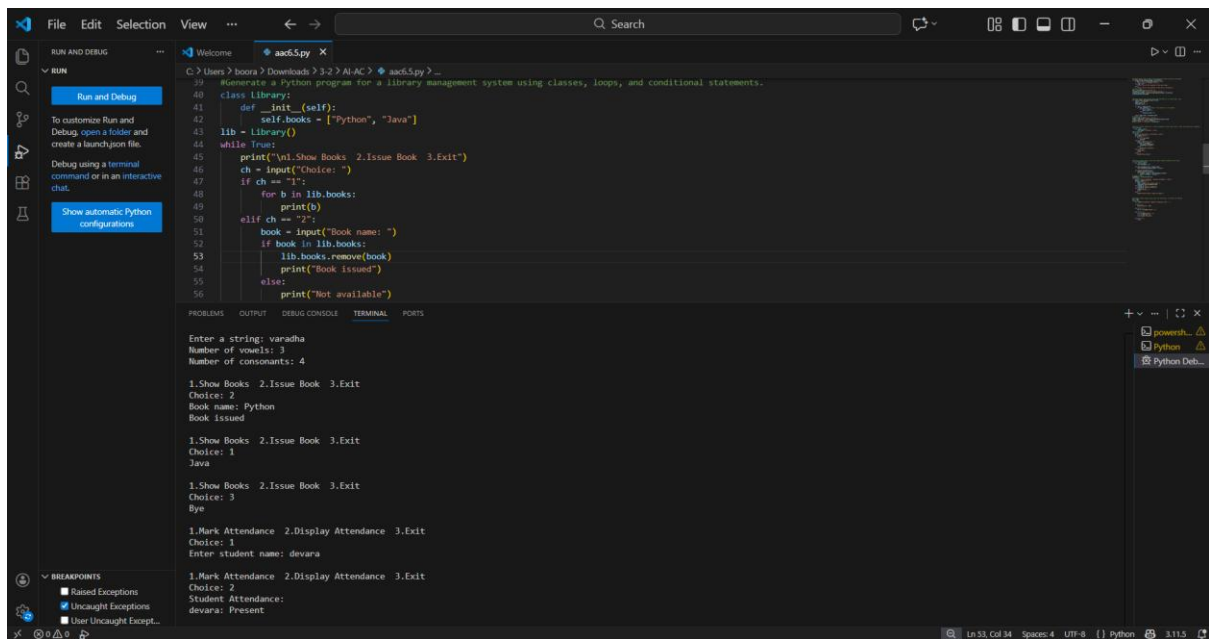
Choice: 1

Java

1.Show Books 2.Issue Book 3.Exit

Choice: 3

Bye



```
C:\Users\hokra> Downloads> 3-2-7 AI.AC> aad5py> _
39. #Generate a Python program for a library management system using classes, loops, and conditional statements.
40. class Library:
41.     def __init__(self):
42.         self.books = ["Python", "Java"]
43.     lib = Library()
44.     while True:
45.         print("\n1.Show Books 2.Issue Book 3.Exit")
46.         ch = input("Choice: ")
47.         if ch == "1":
48.             for b in lib.books:
49.                 print(b)
50.         elif ch == "2":
51.             book = input("Book name: ")
52.             if book in lib.books:
53.                 lib.books.remove(book)
54.                 print("Book issued")
55.             else:
56.                 print("Not available")
```

Enter a string: varadha
Number of vowels: 3
Number of consonants: 4

1.Show Books 2.Issue Book 3.Exit
Choice: 2
Book name: Python
Book issued

1.Show Books 2.Issue Book 3.Exit
Choice: 1
Java

1.Show Books 2.Issue Book 3.Exit
Choice: 3
Bye

1.Mark Attendance 2.Display Attendance 3.Exit
Choice: 1
Enter student name: devana

1.Mark Attendance 2.Display Attendance 3.Exit
Choice: 2
Student Attendance:
devana: Present

Task Description #4 (AI-Assisted Code Completion for Class-Based Attendance System)

Task: Use an AI tool to generate an attendance management class.

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

Expected Output:

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

Code:

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

```
class StudentAttendance:
```

```
    def __init__(self):
```

```
        self.attendance = {}
```

```
    def mark_attendance(self, student_name):
```

```
        self.attendance[student_name] = "Present"
```

```
    def display_attendance(self):
```

```
        print("Student Attendance:")
```

```
        for student, status in self.attendance.items():
```

```
            print(f"{student}: {status}")
```

Example usage

```
attendance = StudentAttendance()
```

```
while True:
```

```
    print("\n1.Mark Attendance  2.Display Attendance  3.Exit")
```

```
    choice = input("Choice: ")
```

```
    if choice == "1":
```

```
        name = input("Enter student name: ")
```

```
        attendance.mark_attendance(name)
```

```
    elif choice == "2":
```

```
        attendance.display_attendance()
```

```
    elif choice == "3":
```

```
        print("Exiting...")
```

```
        break
```

```
    else:
```

```
print("Invalid choice. Please try again.")
```

Output:

1.Mark Attendance 2.Display Attendance 3.Exit

Choice: 1

Enter student name: devara

1.Mark Attendance 2.Display Attendance 3.Exit

Choice: 2

Student Attendance:

devara: Present

1.Mark Attendance 2.Display Attendance 3.Exit

Choice: 1

Enter student name: deva

1.Mark Attendance 2.Display Attendance 3.Exit

Choice: 2

Student Attendance:

devara: Present

deva: Present

1.Mark Attendance 2.Display Attendance 3.Exit

Choice: 1

Enter student name: white

1.Mark Attendance 2.Display Attendance 3.Exit

Choice: 2

Student Attendance:

devara: Present

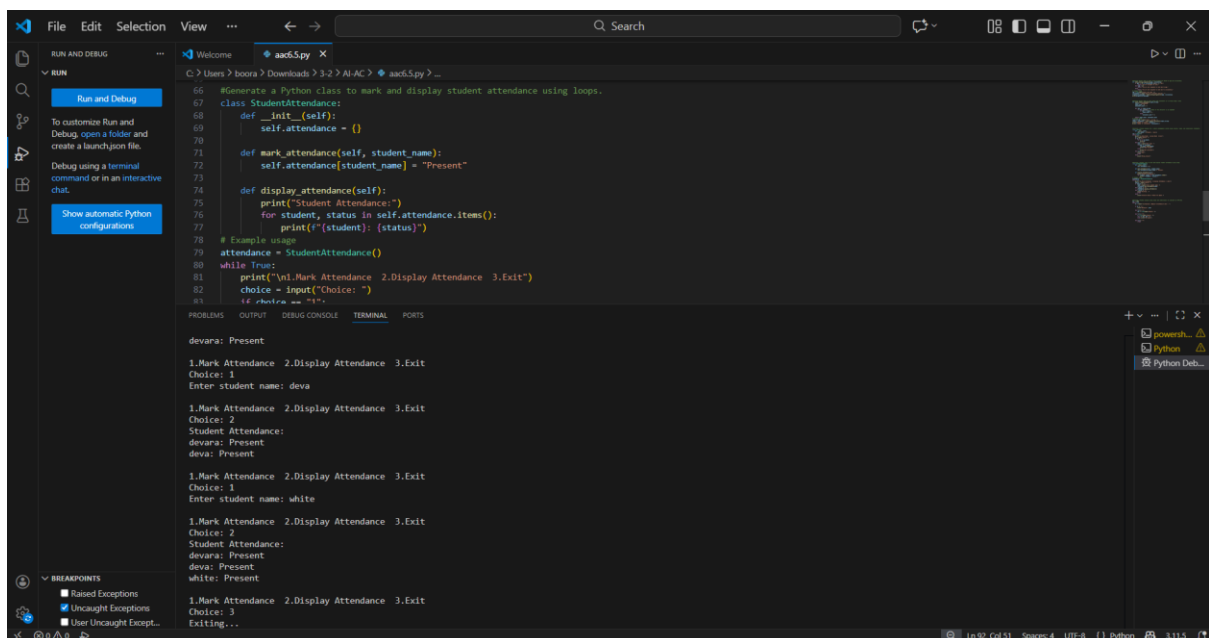
deva: Present

white: Present

1.Mark Attendance 2.Display Attendance 3.Exit

Choice: 3

Exiting...



```
66 #Generate a Python class to mark and display student attendance using loops.
67 class StudentAttendance:
68     def __init__(self):
69         self.attendance = {}
70
71     def mark_attendance(self, student_name):
72         self.attendance[student_name] = "Present"
73
74     def display_attendance(self):
75         print("Student Attendance:")
76         for student, status in self.attendance.items():
77             print(f'{student}: {status}')
78
79 # Example usage
80 attendance = StudentAttendance()
81 while True:
82     print("\n1.Mark Attendance 2.Display Attendance 3.Exit")
83     choice = input("Choice: ")
84     if choice == "1":
85         student_name = input("Enter student name: ")
86         attendance.mark_attendance(student_name)
87     elif choice == "2":
88         attendance.display_attendance()
89     elif choice == "3":
90         break
91     else:
92         print("Invalid choice. Please try again.")
```

devara: Present

1.Mark Attendance 2.Display Attendance 3.Exit
Choice: 1
Enter student name: deva

1.Mark Attendance 2.Display Attendance 3.Exit
Choice: 2
Student Attendance:
devara: Present
deva: Present

1.Mark Attendance 2.Display Attendance 3.Exit
Choice: 1
Enter student name: white

1.Mark Attendance 2.Display Attendance 3.Exit
Choice: 2
Student Attendance:
devara: Present
deva: Present
white: Present

1.Mark Attendance 2.Display Attendance 3.Exit
Choice: 3
Exiting...

Task Description #5 (AI-Based Code Completion for Conditional Menu Navigation)

Task: Use an AI tool to complete a navigation menu.

Prompt: "Generate a Python program using loops and conditionals to simulate an ATM menu."

Expected Output:

- AI-generated menu logic.

- Correct option handling.
- Output verification.

Code:

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

```
bal = 1000
```

```
while True:
```

```
    ch = input("\n1.Balance 2.Deposit 3.Withdraw 4.Exit : ")
```

```
    if ch == "1":
```

```
        print("Balance:", bal)
```

```
    elif ch == "2":
```

```
        bal += int(input("Amount: "))
```

```
    elif ch == "3":
```

```
        a = int(input("Amount: "))
```

```
        if a <= bal: bal -= a
```

```
        else: print("No money")
```

```
    elif ch == "4":
```

```
        break
```

Output:

```
1.Balance 2.Deposit 3.Withdraw 4.Exit : 1
```

```
Balance: 1000
```

```
1.Balance 2.Deposit 3.Withdraw 4.Exit : 2
```

1.Balance 2.Deposit 3.Withdraw 4.Exit : 2

Amount: 10000

1.Balance 2.Deposit 3.Withdraw 4.Exit : 3

Amount: 4000

1.Balance 2.Deposit 3.Withdraw 4.Exit : 4

PS C:\Users\boora\Downloads\3-2\AI-AC>

