SR UNIVERSITY

School of Computer Science and Artificial Intelligence

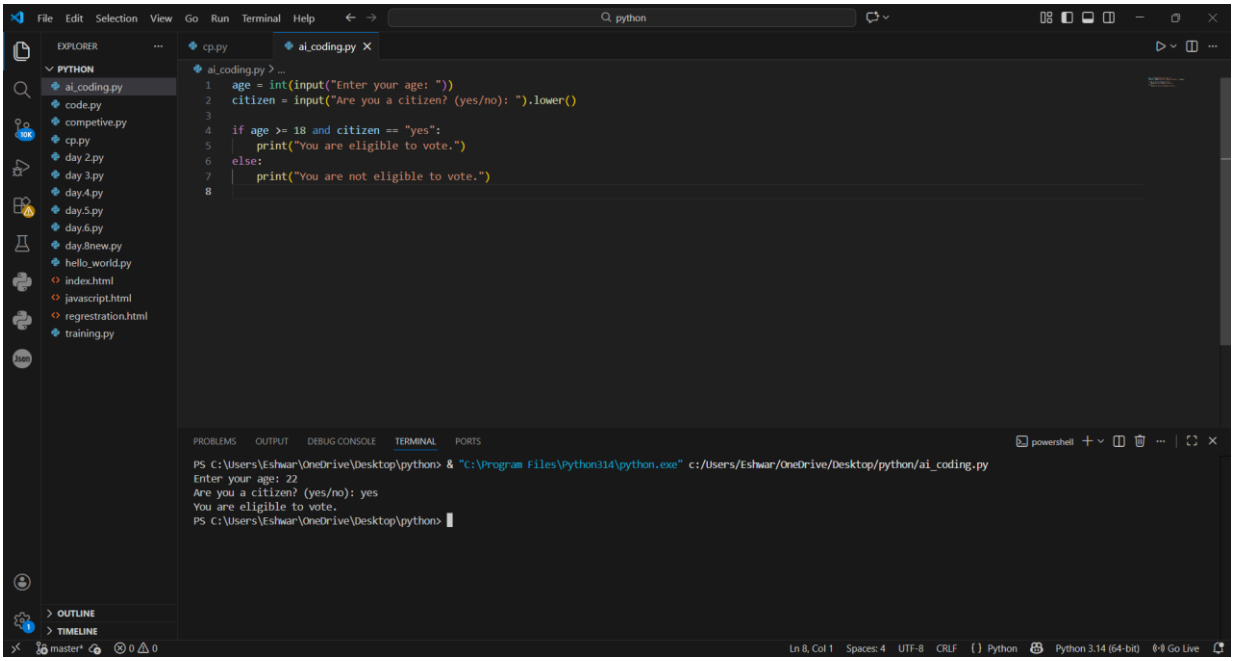
Lab Assignment # 6.5

Program	**: B. Tech (CSE)**
Specialization	**: -**
Course Title	**: AI Assisted Coding**
Course Code	**: 23CS002PC304**
Semester	**II**
Academic Session	**: 2025-2026**
Name of Student	**: P.Eshwar**
Enrollment No.	**: 2403A51L26**
Batch No.	**51**
Date	**: 06/02/26**

Submission Starts here

Screenshots:

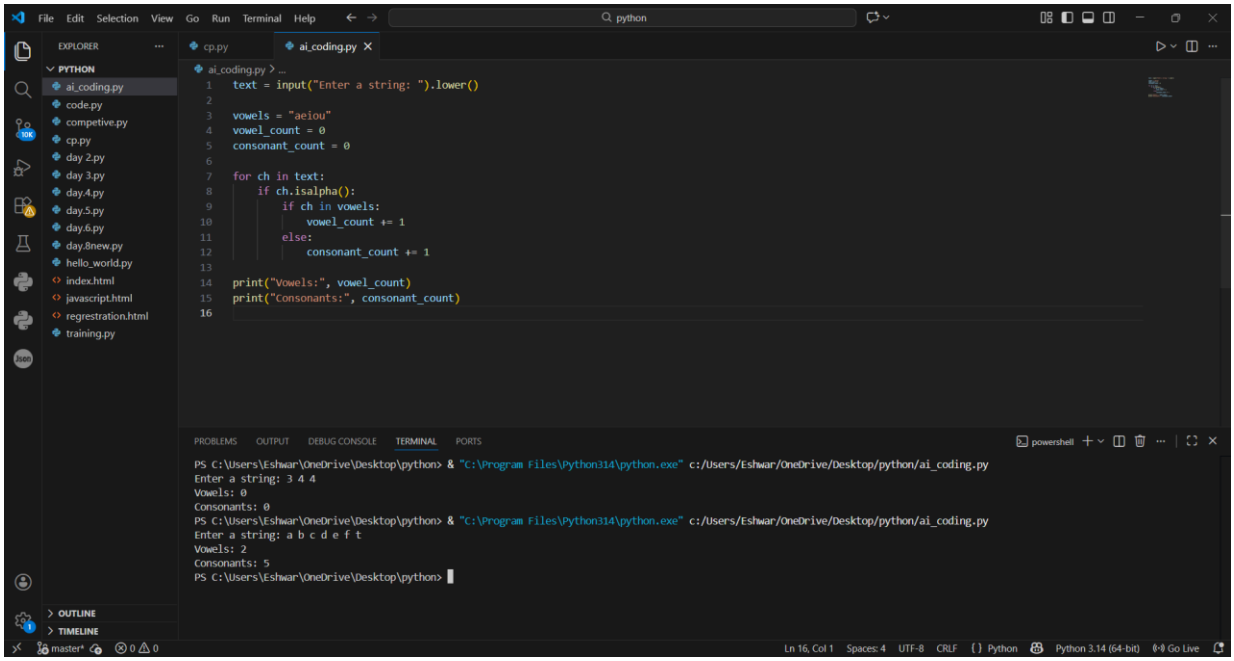
Task Description #1 (AI-Based Code Completion for Conditional Eligibility Check)
Task: Use an AI tool to generate eligibility logic.
Prompt:
"Generate Python code to check voting eligibility based on age and citizenship."



SR UNIVERSITY

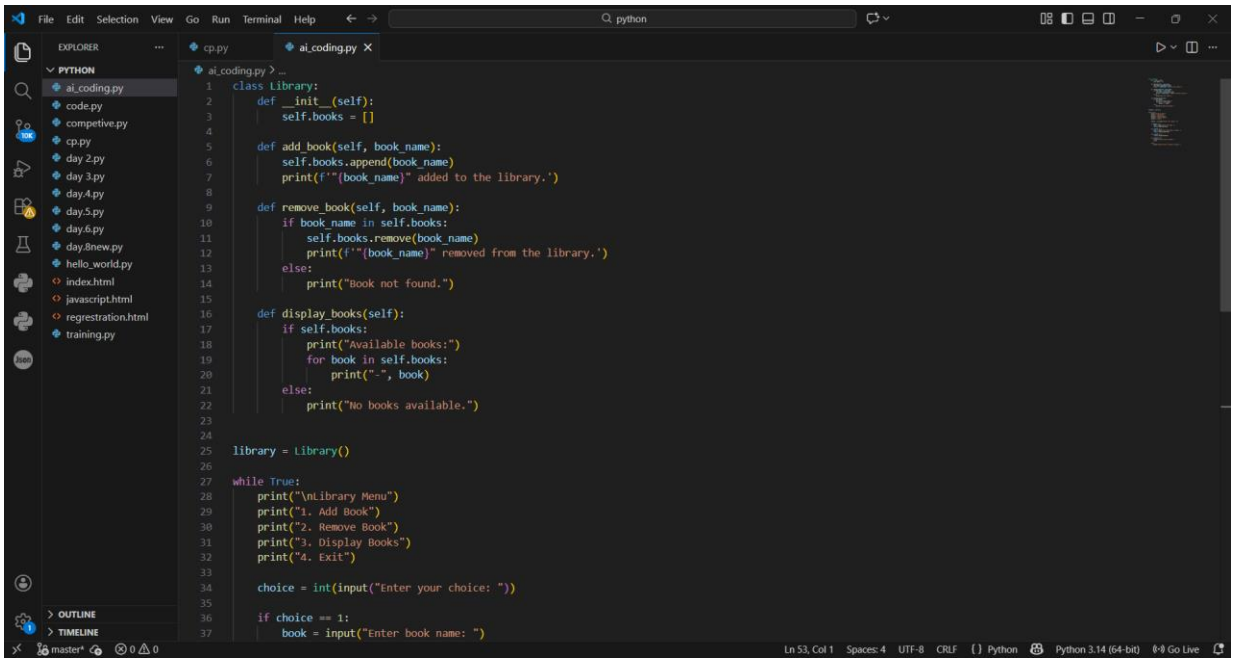
Task Description #2(AI-Based Code Completion for Loop-Based String Processing)
Task: Use an AI tool to process strings using loops.

Prompt:
"Generate Python code to count vowels and consonants in a string using a loop."



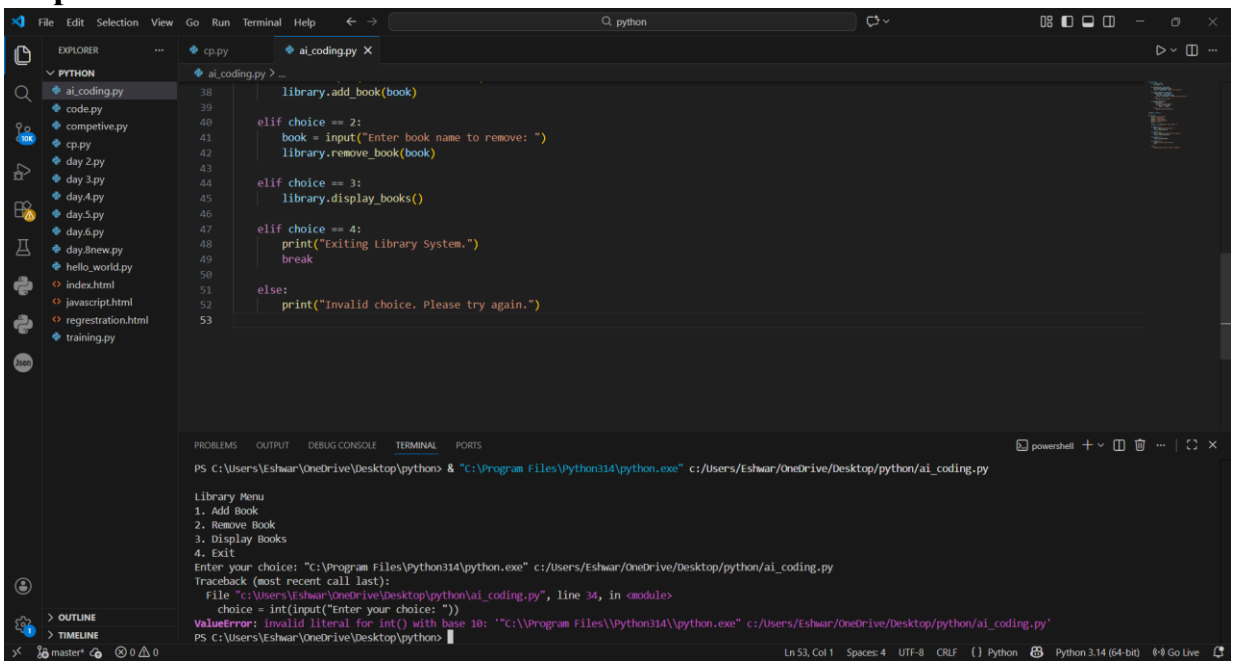
Task Description #3 (AI-Assisted Code Completion Reflection Task)
Task: Use an AI tool to generate a complete program using classes, loops, and conditionals**.**

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



```python
class Library:
    def __init__(self):
        self.books = []

    def add_book(self, book_name):
        self.books.append(book_name)
        print(f'"{book_name}" added to the library.')

    def remove_book(self, book_name):
        if book_name in self.books:
            self.books.remove(book_name)
            print(f'"{book_name}" removed from the library.')
        else:
            print("Book not found.")

    def display_books(self):
        if self.books:
            print("Available books:")
            for book in self.books:
                print("-", book)
        else:
            print("No books available.")


library = Library()

while True:
    print("\nLibrary Menu")
    print("1. Add Book")
    print("2. Remove Book")
    print("3. Display Books")
    print("4. Exit")

    choice = int(input("Enter your choice: "))

    if choice == 1:
        book = input("Enter book name: ")
```

Ouput:



```python
        library.add_book(book)

    elif choice == 2:
        book = input("Enter book name to remove: ")
        library.remove_book(book)

    elif choice == 3:
        library.display_books()

    elif choice == 4:
        print("Exiting Library System.")
        break

    else:
        print("Invalid choice. Please try again.")

```

```
PS C:\Users\Eshwar\OneDrive\Desktop\python> & "C:\Program Files\Python314\python.exe" c:/Users/Eshwar/OneDrive/Desktop/python/ai_coding.py

Library Menu
1. Add Book
2. Remove Book
3. Display Books
4. Exit
Enter your choice: "C:\Program Files\Python314\python.exe" c:/Users/Eshwar/OneDrive/Desktop/python/ai_coding.py
Traceback (most recent call last):
  File "C:\Users\Eshwar\OneDrive\Desktop\python\ai_coding.py", line 34, in <module>
    choice = int(input("Enter your choice: "))
ValueError: invalid literal for int() with base 10: '"C:\\Program Files\\Python314\\python.exe" c:/Users/Eshwar/OneDrive/Desktop/python/ai_coding.py'
PS C:\Users\Eshwar\OneDrive\Desktop\python>
```

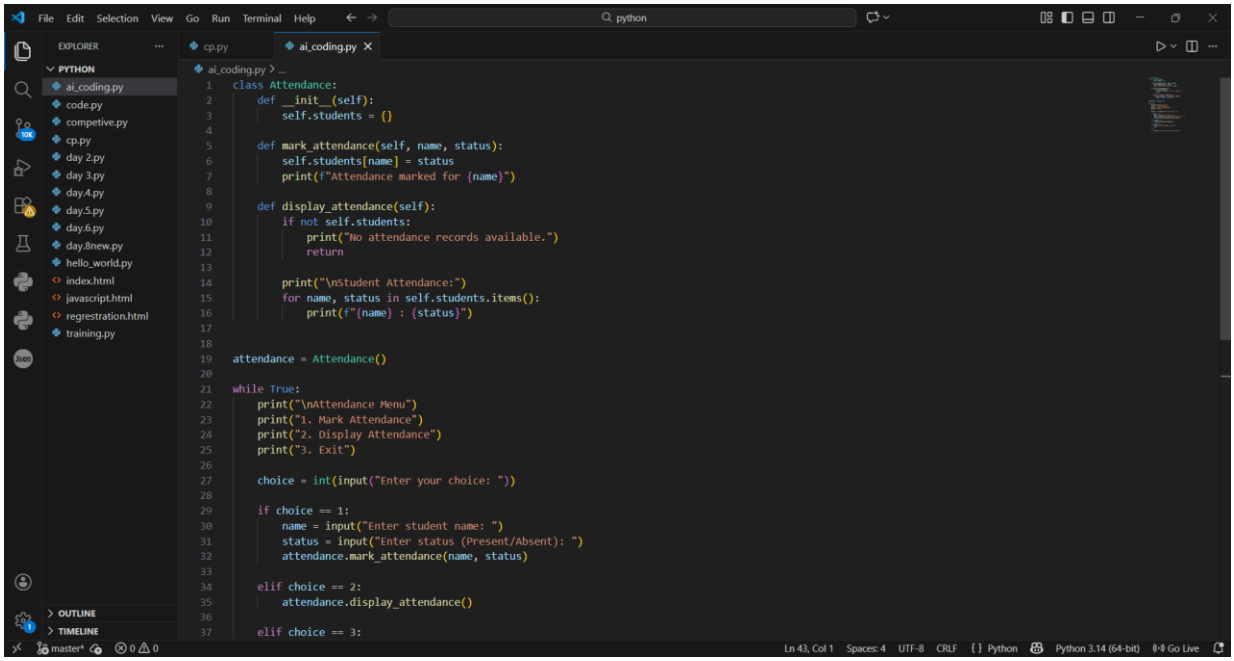
Task Description #4 (AI-Assisted Code Completion for Class-Based Attendance System)

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

Prompt:

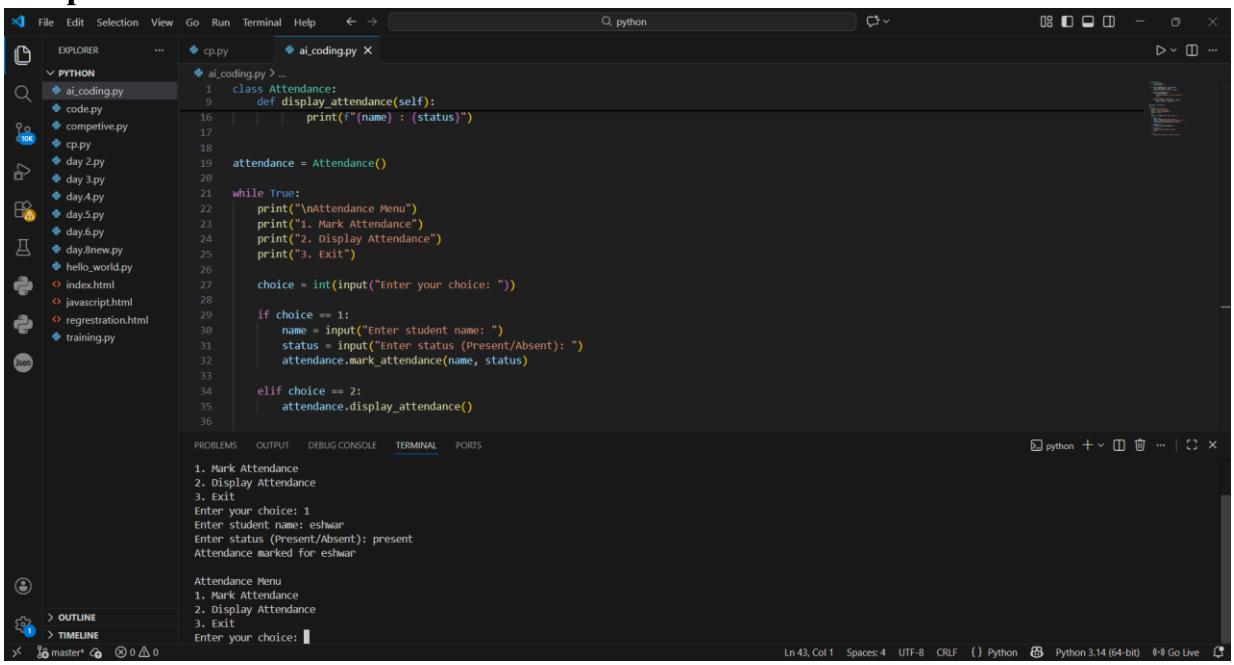
SR UNIVERSITY

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



```python
class Attendance:
    def __init__(self):
        self.students = {}

    def mark_attendance(self, name, status):
        self.students[name] = status
        print(f"Attendance marked for {name}")

    def display_attendance(self):
        if not self.students:
            print("No attendance records available.")
            return

        print("\nStudent Attendance:")
        for name, status in self.students.items():
            print(f"{name} : {status}")


attendance = Attendance()

while True:
    print("\nAttendance Menu")
    print("1. Mark Attendance")
    print("2. Display Attendance")
    print("3. Exit")

    choice = int(input("Enter your choice: "))

    if choice == 1:
        name = input("Enter student name: ")
        status = input("Enter status (Present/Absent): ")
        attendance.mark_attendance(name, status)

    elif choice == 2:
        attendance.display_attendance()

    elif choice == 3:
```

Output:



```
1. Mark Attendance
2. Display Attendance
3. Exit
Enter your choice: 1
Enter student name: eshwar
Enter status (Present/Absent): present
Attendance marked for eshwar

Attendance Menu
1. Mark Attendance
2. Display Attendance
3. Exit
Enter your choice:
```

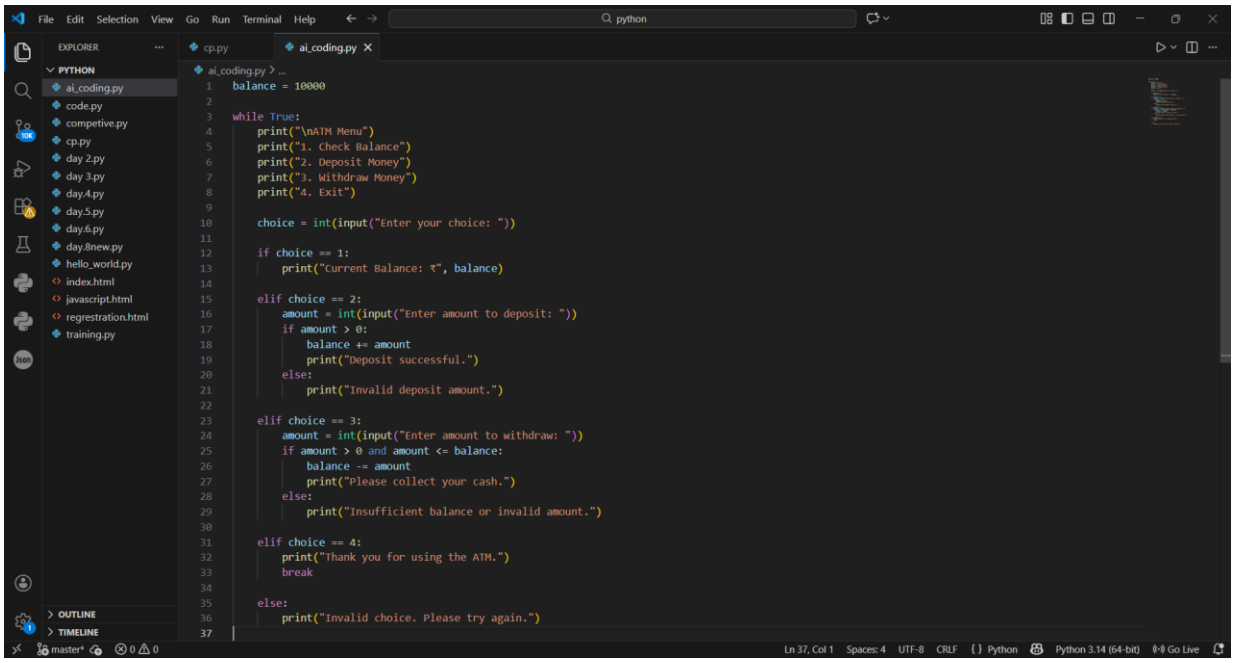
Task Description #5 (AI-Based Code Completion for Conditional Menu Navigation)

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

SR UNIVERSITY

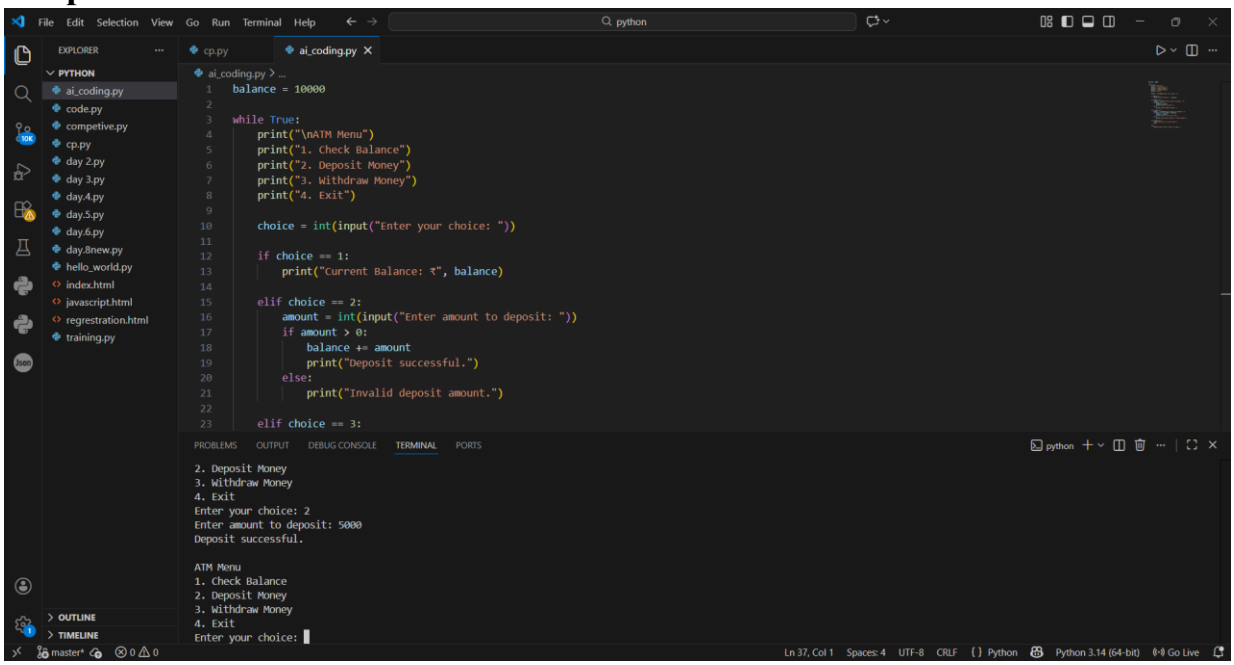
Prompt:

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



```python
balance = 10000

while True:
    print("\nATM Menu")
    print("1. Check Balance")
    print("2. Deposit Money")
    print("3. Withdraw Money")
    print("4. Exit")

    choice = int(input("Enter your choice: "))

    if choice == 1:
        print("Current Balance: ₹", balance)

    elif choice == 2:
        amount = int(input("Enter amount to deposit: "))
        if amount > 0:
            balance += amount
            print("Deposit successful.")
        else:
            print("Invalid deposit amount.")

    elif choice == 3:
        amount = int(input("Enter amount to withdraw: "))
        if amount > 0 and amount <= balance:
            balance -= amount
            print("Please collect your cash.")
        else:
            print("Insufficient balance or invalid amount.")

    elif choice == 4:
        print("Thank you for using the ATM.")
        break

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

Output:



```
2. Deposit Money
3. Withdraw Money
4. Exit
Enter your choice: 2
Enter amount to deposit: 5000
Deposit successful.

ATM Menu
1. Check Balance
2. Deposit Money
3. Withdraw Money
4. Exit
Enter your choice:
```