Al Assignment-5.1

Name: A. MANIDEEPIKA

HT.NO: 2403A52052

Batch: AIB03

Task 1: Start a Python class named Student with attributes name, roll_number, and marks. Prompt GitHub Copilot to complete methods for displaying details and checking if marks are above average

PROMPT: Start a Python class named Student with attributes name, roll number, and marks.

CODE:

OP:



Observation: The AI-generated code was accurate and complete. It produced correct methods for displaying details and checking above-average marks. The suggestions matched Python standards and required little or no correction. The lab helped me understand how AI can assist in coding, but also the need to carefully check the code.

Task 2: Write the first two lines of a for loop to iterate through a list of numbers. Use a comment prompt to let Copilot suggest how to calculate and print the square of even numbers only.

Prompt: calculate and print the square of even numbers which are persent in a list.list is given dynamically by user

CODE:

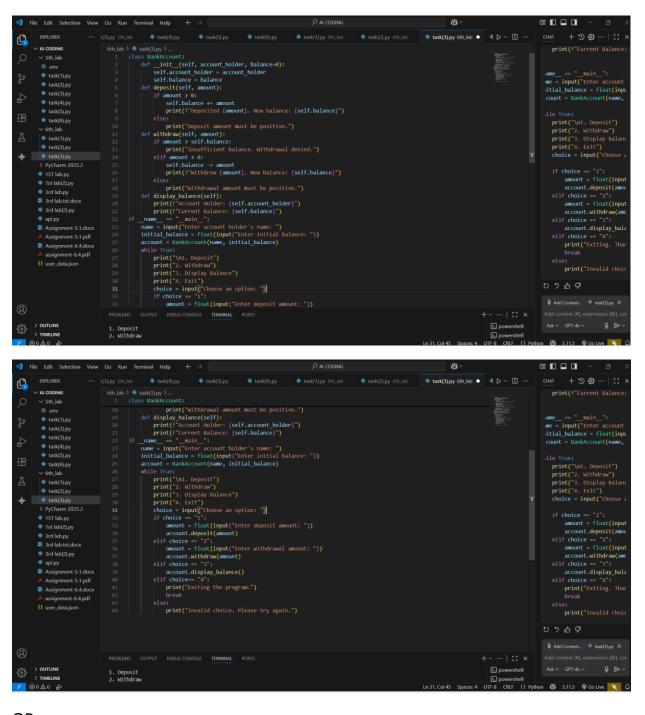
OP:

Observation: I just wrote the comment to calculate squares of even numbers and asked AI to complete the logic. The AI used a list comprehension to check even numbers and square them, which was both correct and efficient. The program took input from the user, processed it, and displayed the result without errors. The code worked as expected, and the AI's completion was accurate and simple to understand.

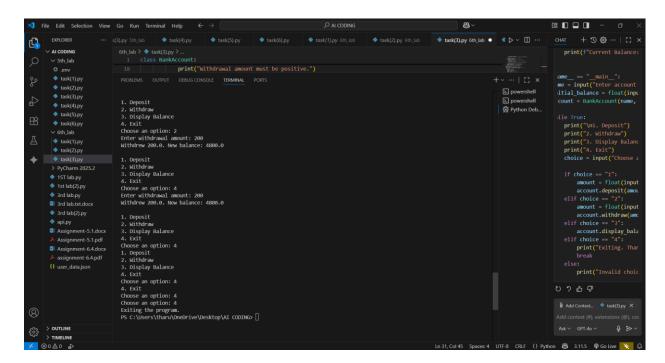
Task 3: Create a class called BankAccount with attributes account_holder and balance. Use Copilot to complete methods for deposit(), withdraw(), and check for insufficient balance.

Prompt:Complete the code using deposit(), withdraw() methods. Even check for the insufficient balance.

CODE:



OP:



Observation: I wrote the structure of the Bank Account class and let AI complete the methods for deposit, withdraw, and balance display. The AI also suggested a loop for menu options, which worked correctly. The code ran without errors and produced the expected results. The AI's suggestions were accurate, clear, and required no major corrections. This lab helped me understand how AI can simplify writing logic with loops, conditionals, and methods

TASK 4: Define a list of student dictionaries with keys name and score. Ask Copilot to write a while loop to print the names of students who scored more than 75.

Prompt: write a while loop to print the names of students who scored more than 75

CODE:

OP:

```
## 3rd lab(2)py

* apl.py

* apl.py

* Signment-5.1.docs

* Assignment-5.1.pdf

* Assignment-6.4.docs

* Assignment-6.4.docs

* Assignment-6.4.docs

* Assignment-6.4.docs

* Assignment-6.4.docs

* Assignment-6.4.docs

* Inter student's name (or type 'done' to finish): sari

* Enter variethina's score: 89

* Enter student's name (or type 'done' to finish): siri

* Enter student's name (or type 'done' to finish): mani

* Enter student's name (or type 'done' to finish): mani

* Enter student's name (or type 'done' to finish): done

* Students who scored more than 75:

* varshitha

* Siri

* NoTUNE

* OUTUNE

* Siri

* Siri
```

Observation: wrote the input structure for student details, and AI completed the loop logic to check which students scored above 75. It used a list of dictionaries to store the data and a while loop with conditions to filter results. The program worked correctly when tested, and the output matched the requirement. The AI's code was accurate, complete, and easy to follow

TASK 5:

Prompt:

CODE:

OP:

Observation: