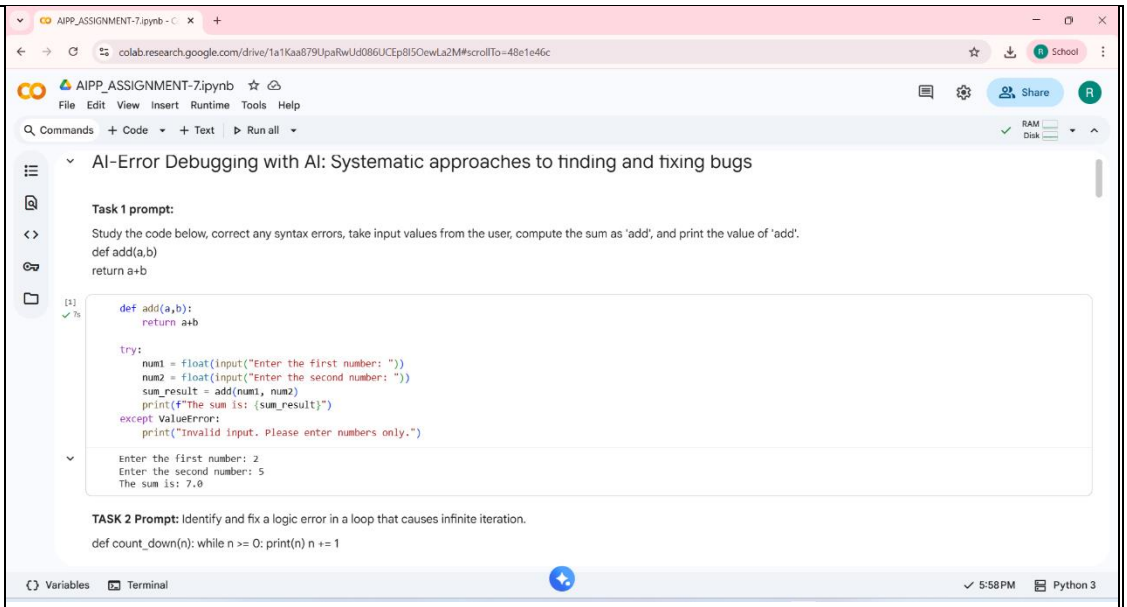
SCHOOL OF COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE		DEPARTMENT OF COMPUTER SCIENCE ENGINEERING	
Program Name: M.Tech. and MCA		**Assignment Type: Lab**	**AcademicYear:**2025-2026
Course Coordinator Name		Venkataramana Veeramsetty	
Course Code		**Course Title**	AI Assisted Problem Solving Using Python
Year/Sem	I/I	**Regulation**	R24
Date and Day of Assignment	Week3 - Monday	**Time(s)**	
Duration	2 Hours	**Applicable to Batches**	M.Tech. and MCA
AssignmentNumber:7.3(Present assignment number)/**24**(Total number of assignments)			

ASSIGNMENT – 7

Name: Rimsha Mujeeb **Roll Number:2503B05138 (M.Tech - CSE)**

Q.No.	Question

Q1.	**Task Description#1**
	● **Paste a function with a missing colon (add(a, b)), and let AI fix the syntax error.**
	python
	`def add(a, b)`
	`  return a + b`
	Expected Output#1
	● **Corrected function with syntax fix**



Q2.

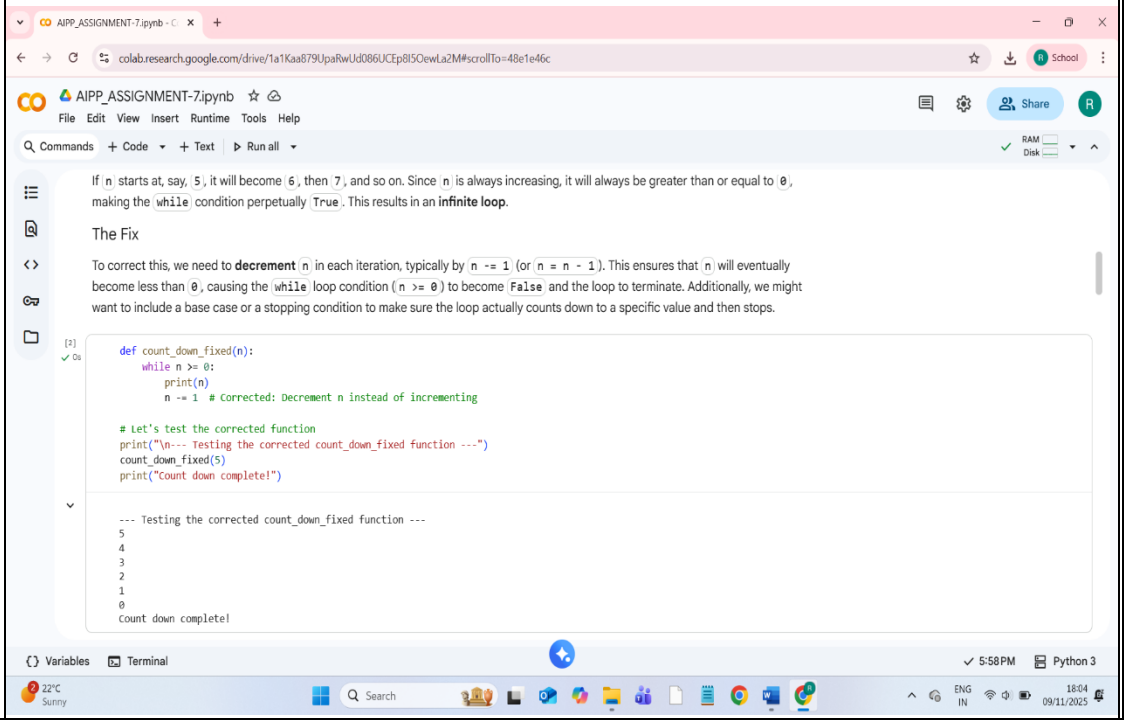
Task Description#2 (Loops)

- Identify and fix a logic error in a loop that causes infinite iteration.

```python
def count_down(n):
    while n >= 0:
        print(n)
        n += 1  # Should be n -= 1
```

Expected Output#2

- AI fixes increment/decrement error



Q3.

Task Description#3

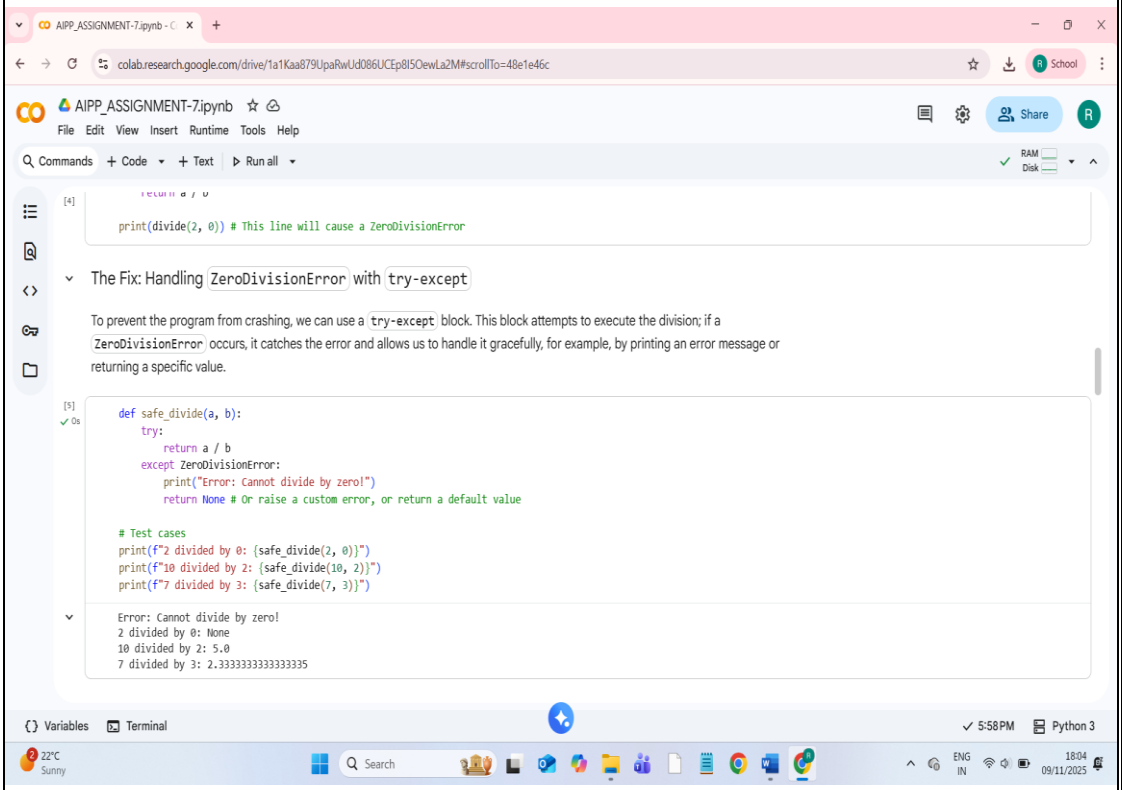
- Debug a runtime error caused by division by zero. Let AI insert try-except.

```
# Debug the following code
def divide(a, b):
    return a / b

print(divide(10, 0))
```

Expected Output#3

- Corrected function with safe error handling



Q4.

Task Description#4

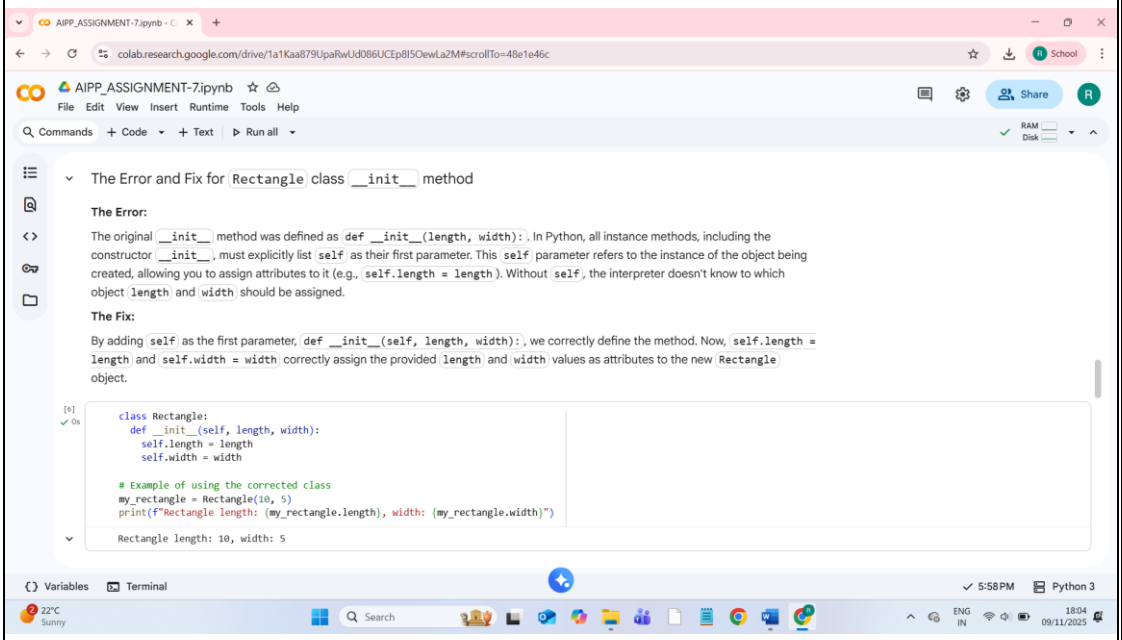
- Provide a faulty class definition (missing self in parameters). Let AI fix it

```
python

class Rectangle:
    def __init__(length, width):
        self.length = length
        self.width = width
```

Expected Output#4

- Correct __init__() method and explanation



Q5.

Task Description#5

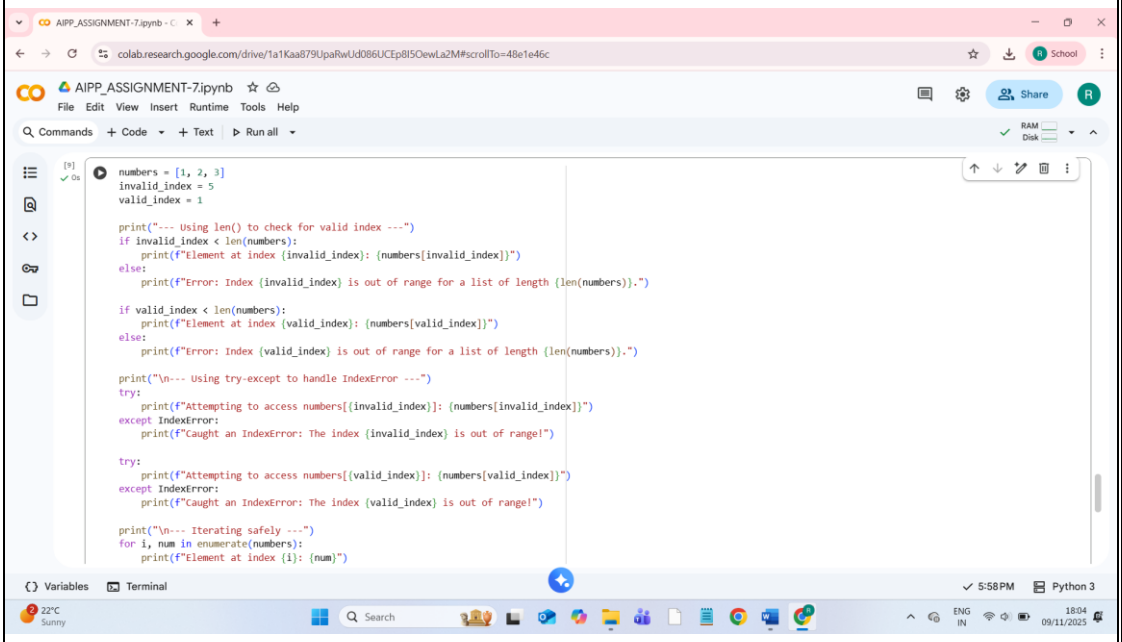
- Access an invalid list index and use AI to resolve the Index Error.

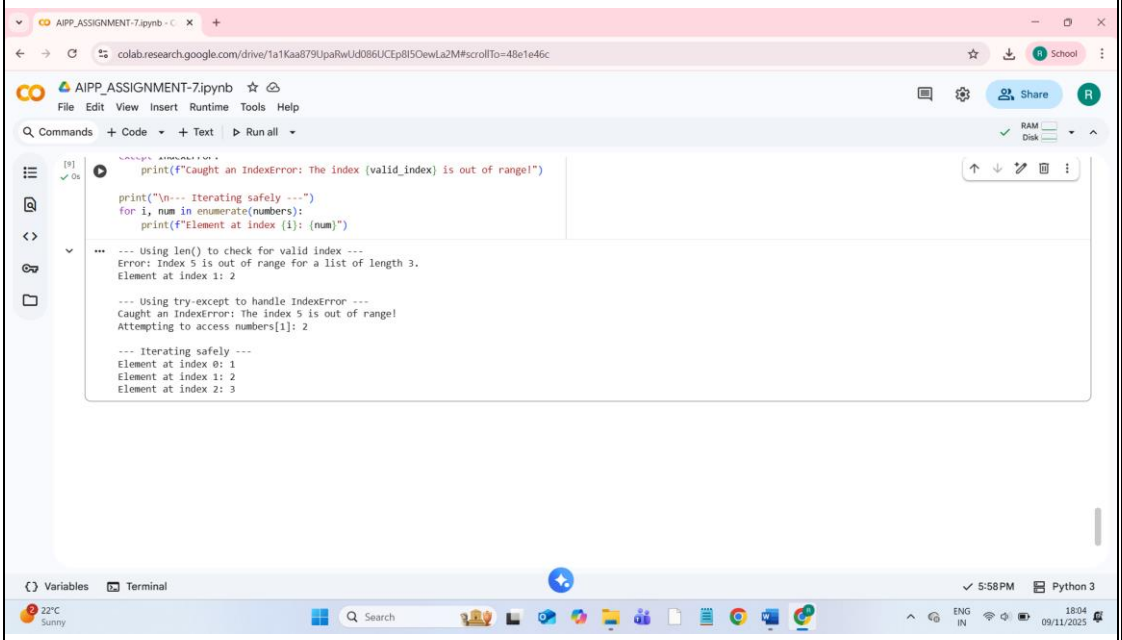
```
python

numbers = [1, 2, 3]
print(numbers[5])
```

Expected Output#5

- AI suggests checking length or using safe access logic

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print(f"Caught an IndexError: The index {valid_index} is out of range!")
print("\n--- Iterating safely ---")
for i, num in enumerate(numbers):
print(f"Element at index {i}: {num}")
--- Using len() to check for valid index ---
Error: Index 5 is out of range for a list of length 3.
Element at index 1: 2
--- Using try-except to handle IndexError ---
Caught an IndexError: The index 5 is out of range!
Attempting to access numbers[1]: 2
--- Iterating safely ---
Element at index 0: 1
Element at index 1: 2
Element at index 2: 3
Variables
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09/11/2025