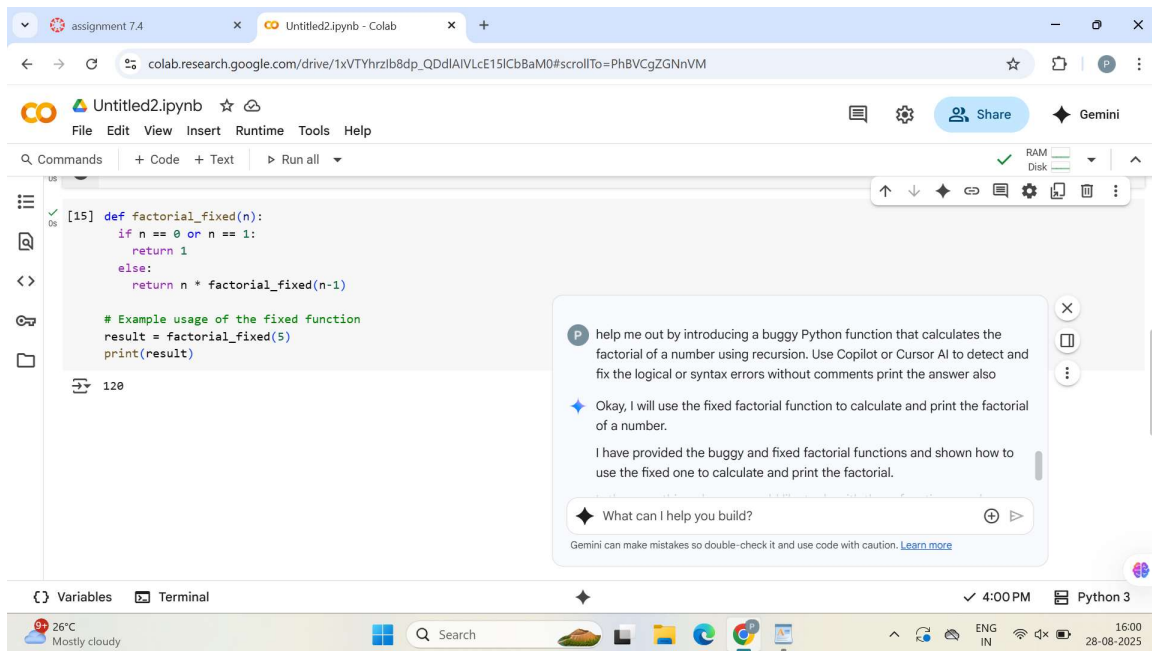name:-B.prathamkoushik

roll number:-2403a52182

ASSIGNMENT 7.4:-

1.Introduce a buggy Python function that calculates the factorial of a number using recursion.

Use Copilot or Cursor AI to detect and fix the logical or syntax errors

2.Provide a list sorting function that fails due to a type error (e.g., sorting list with mixed

integers and strings). Prompt AI to detect the issue and fix the code for consistent sorting

3.Write a Python snippet for file handling that opens a file but forgets to close it. Ask Copilot or Cursor AI to improve it using the best practice (e.g., with open() block)

4.Provide a piece of code with a ZeroDivisionError inside a loop. Ask AI to add error handling

using try-except and continue execution safely
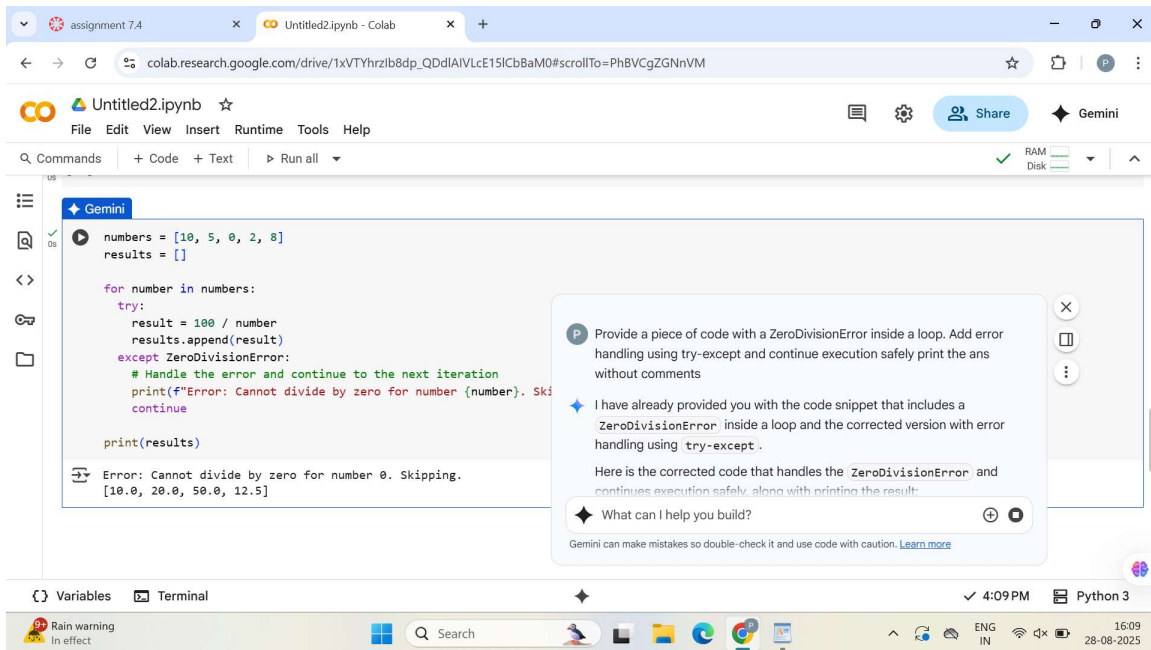
5.Include a buggy class definition with incorrect __init__ parameters or attribute references. Ask

AI to analyze and correct the constructor and attribute usage

colab.research.google.com/drive/1xVTYhrzIb8dp_QDdlAIVLcE15lCbBaM0#scrollTo=PhBVCgZGNnVM

Untitled2.ipynb

File   Edit   View   Insert   Runtime   Tools   Help

Commands   + Code   + Text   Run all

```python
# Corrected class definition
class MyCorrectedClass:
    def __init__(self, value1, value2):
        # Corrected attribute name and assignment
        self.value1 = value1
        self.value2 = value2

    def display_values(self):
        # Corrected attribute references
        print(f"Value 1: {self.value1}, Value 2: {self.value2}")

# Example usage of the corrected class
obj = MyCorrectedClass(10, 20)
obj.display_values()
```

```
Value 1: 10, Value 2: 20
```

can you analyze and correct the constructor and attribute usage.Include a buggy class definition with incorrect __init__ parameters or attribute references and print the answer

I have already provided you with a buggy class definition and the corrected version, including fixing the `__init__` method and attribute usage. I also showed you how to use the corrected class and printed the output.

Here is the corrected class definition and the example usage again:

What can I help you build?

Gemini can make mistakes so double-check it and use code with caution. Learn more

Variables   Terminal   4:12 PM   Python 3