**AI ASSISTED CODING**

ASSIGNMENT-7.4

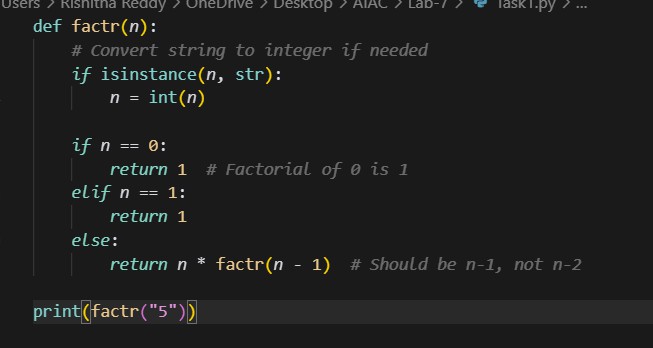
Name: B. Praneeth

HT NO.:2403A51246

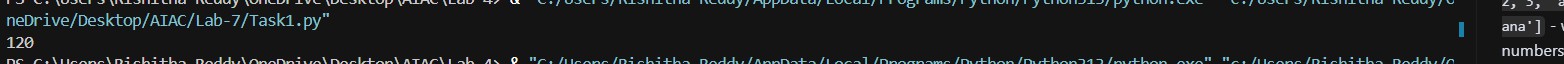
Batch No.: 11

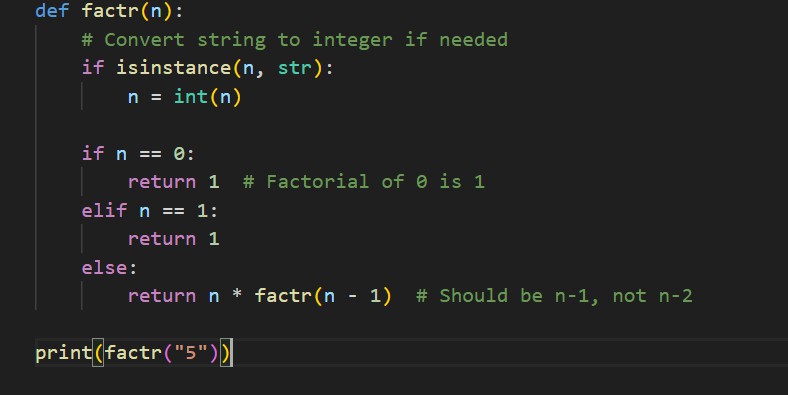
# Task 1:

* 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.

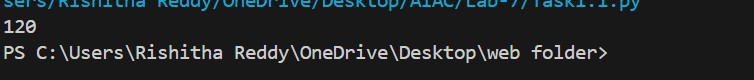


OUTPUT:



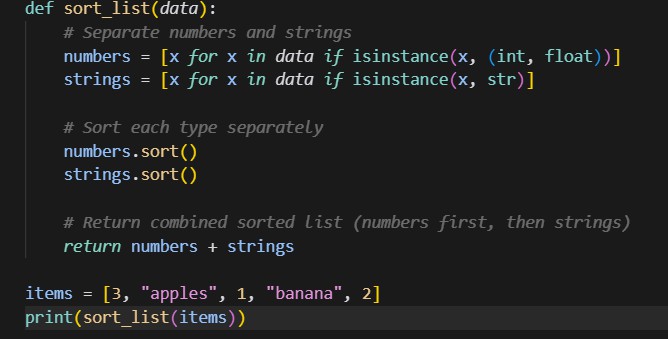


OUTPUT:

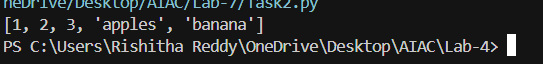


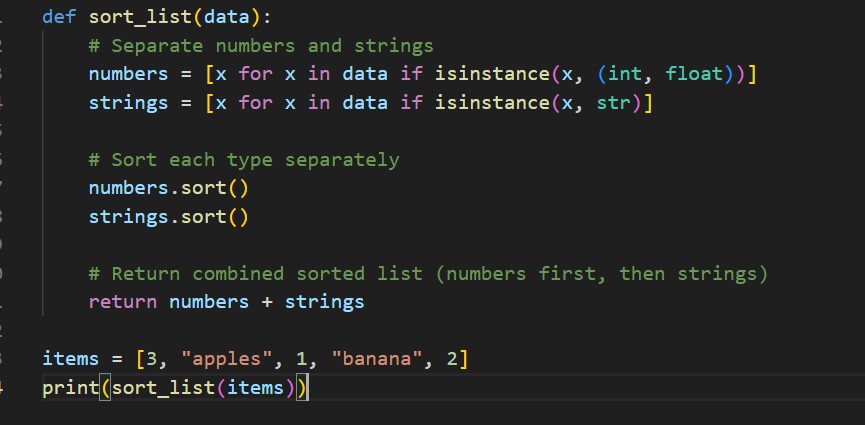
# Task 2:

* 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**.**

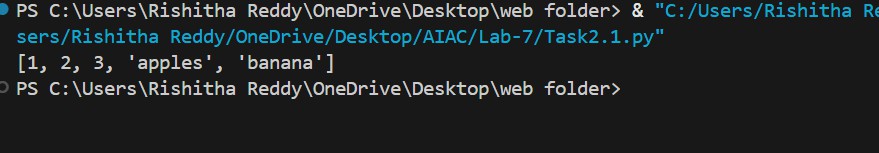
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OUTPUT:



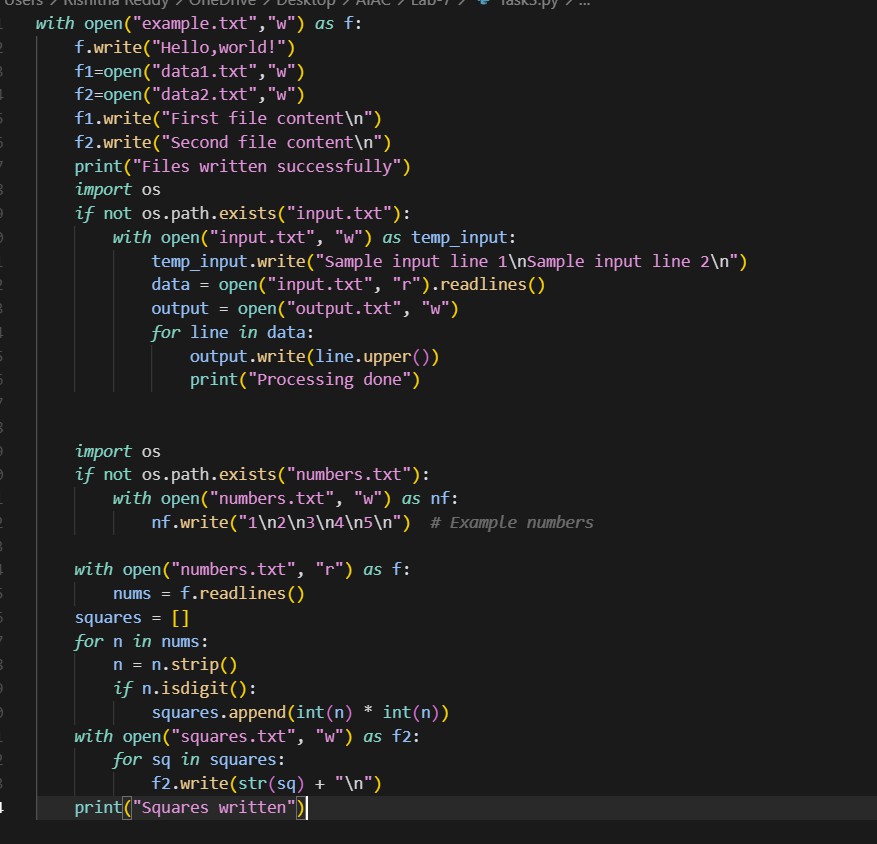


OUTPUT:

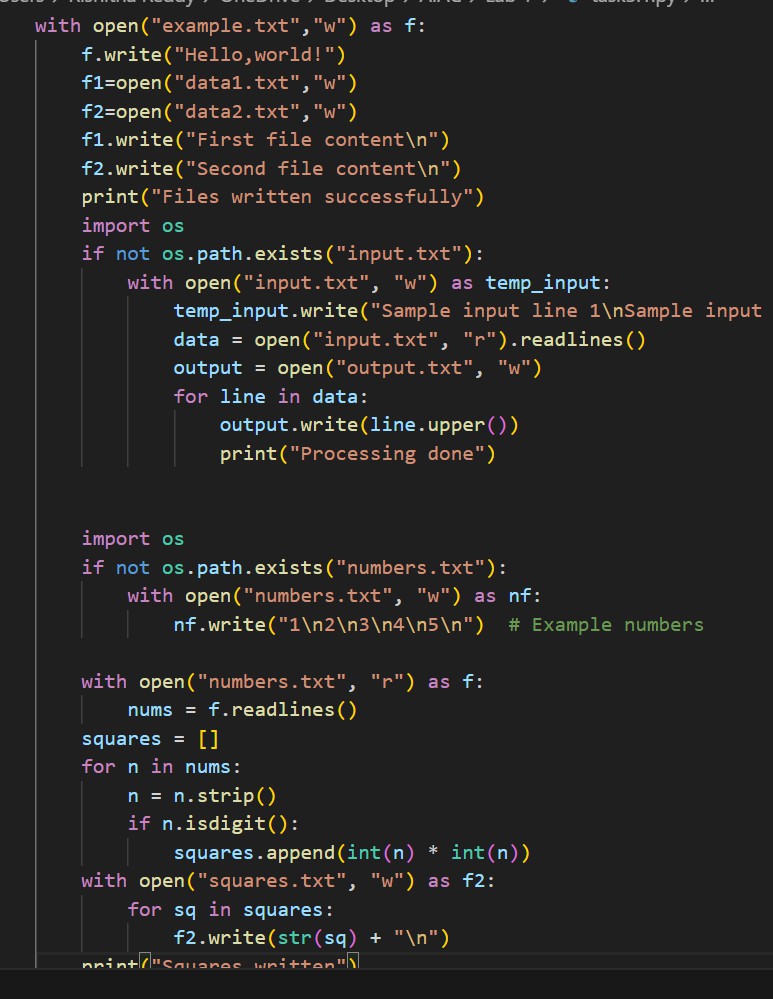


# Task 3:

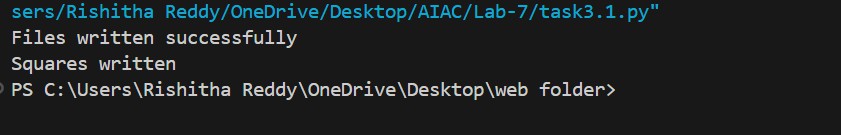
* Write a Python snippet for file handling that opens a file but forgets to close it. Ask Copilot or Cursor AI to improve it using the best practice (e.g., with open() block).



# OUTPUT:

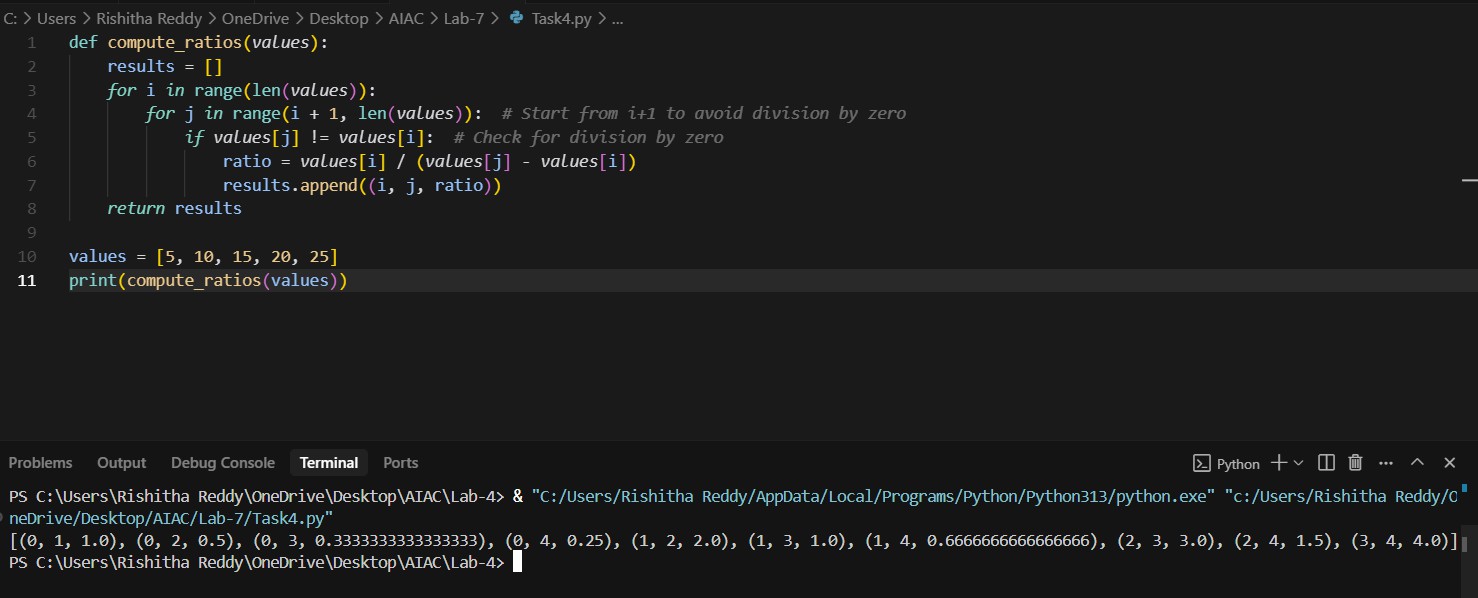


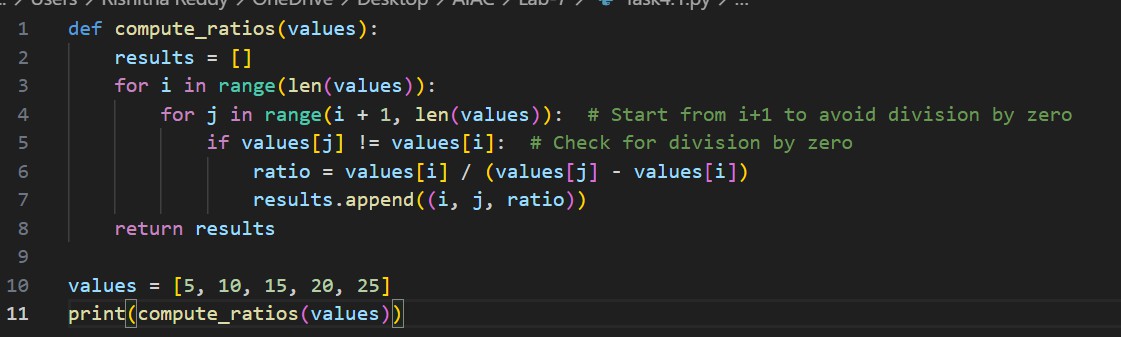
OUTPUT:



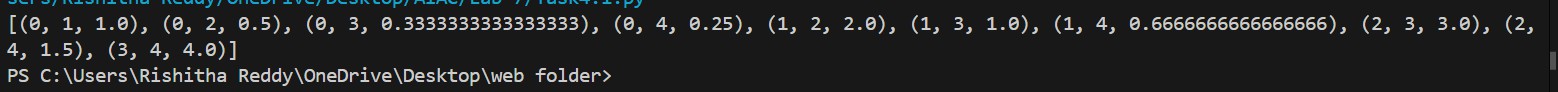
# Task 4:

* Provide a piece of code with a ZeroDivisionError inside a loop. Ask AI to add error handling using try-except and continue execution safely.



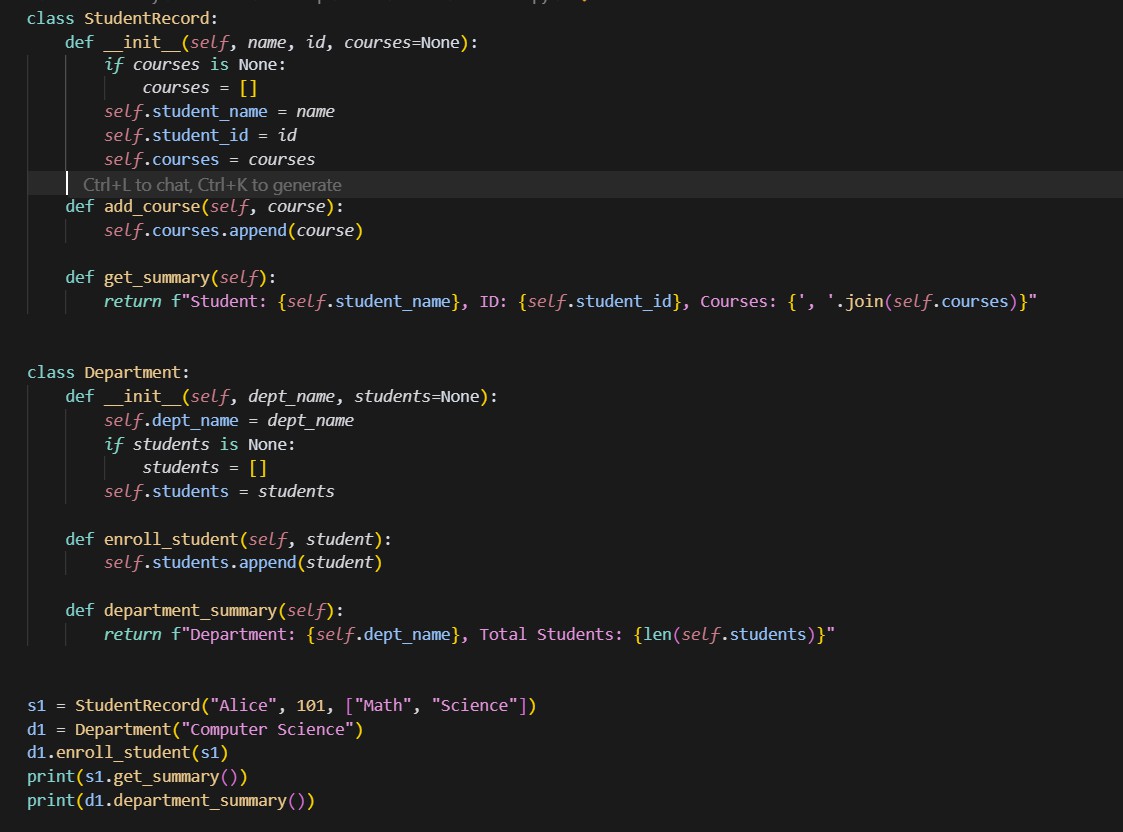


OUTPUT:



# Task 5:

* Include a buggy class definition with incorrect init parameters or attribute references. Ask AI to analyze and correct the constructor and attribute usage



OUTPUT:

