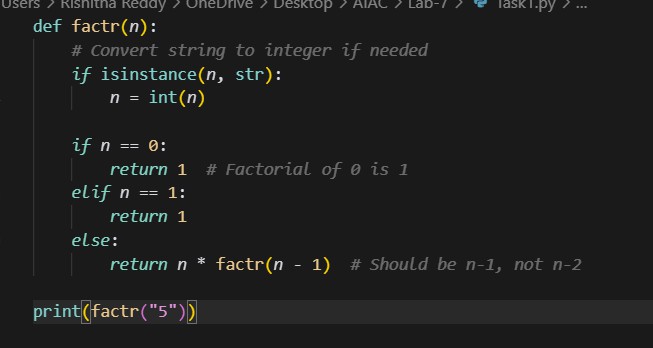
AI Assisted Coding

## Assignment-7.4

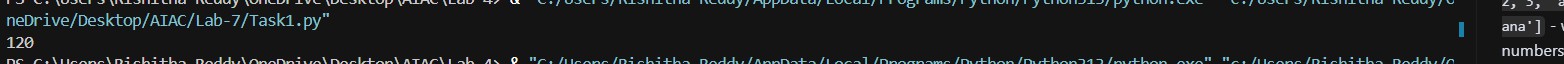
## K.Sindhu meenan(2403A51250)-Batch11

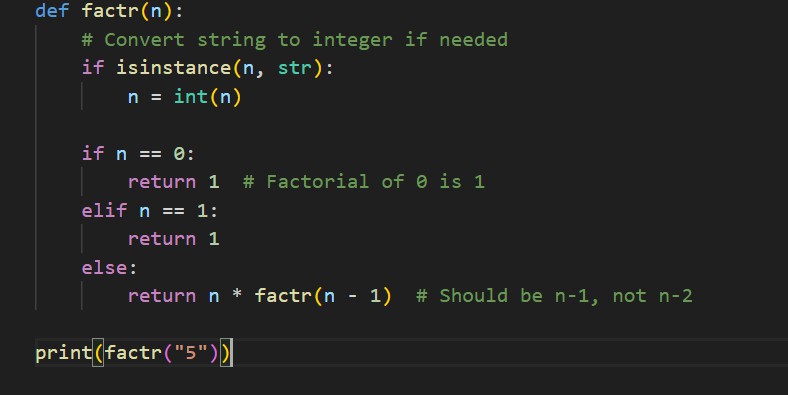
# Task Description #1:

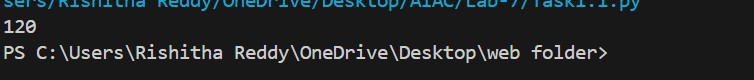
* Introduce a buggy Python function that calculates the factorial of a number using recursion. Use Copilot or Cursor AI to detect and fix the logical or syntax errors.



Output:

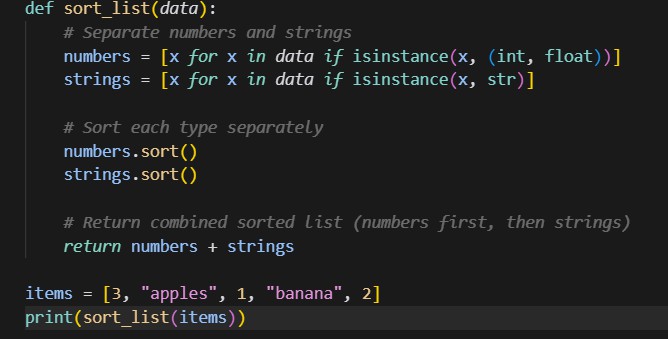




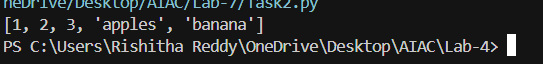
Output:

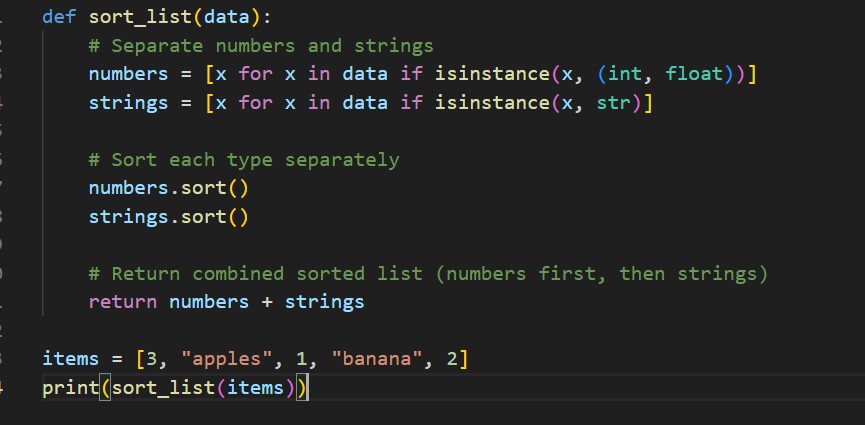
# Task Description #2:

* 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**.**

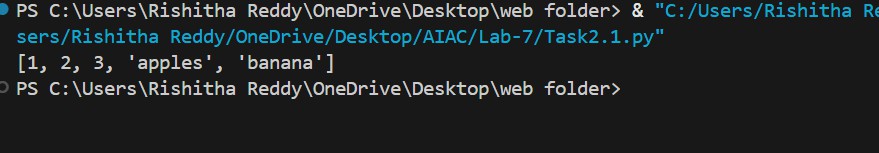
****

Output:



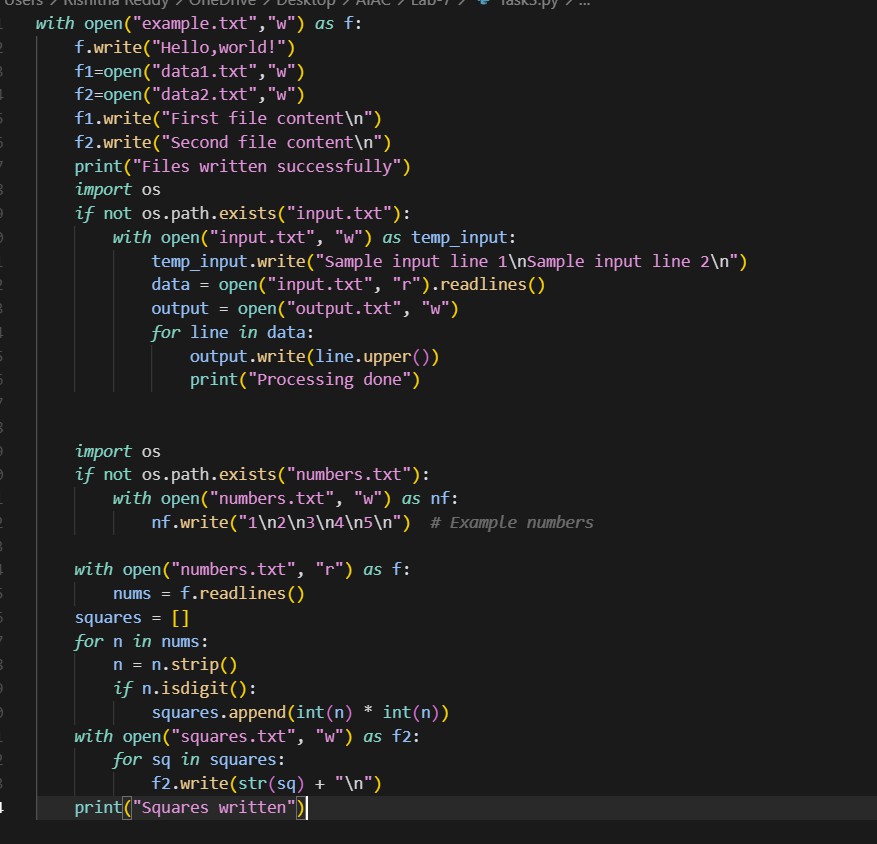


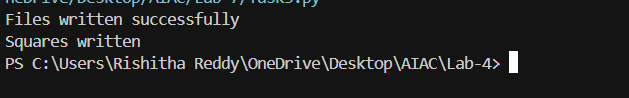
Output:

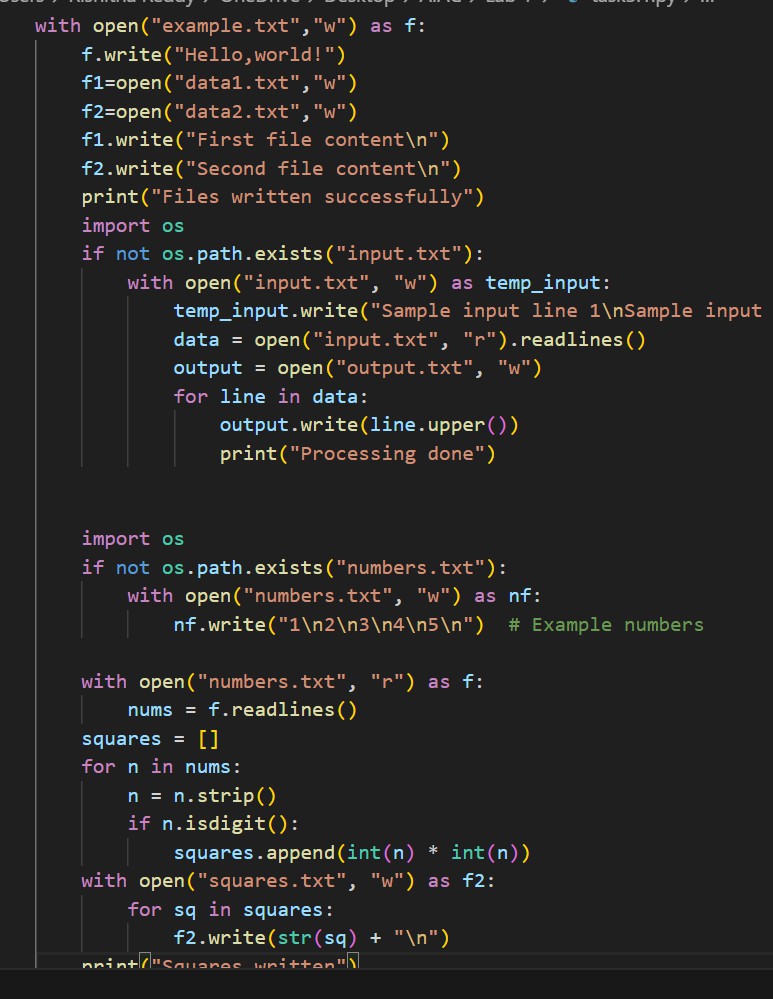


# Task Description #3:

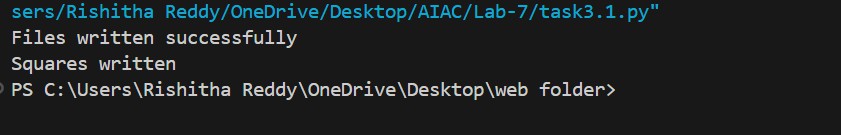
* Write a Python snippet for file handling that opens a file but forgets to close it. Ask Copilot or Cursor AI to improve it using the best practice (e.g., with open() block).



Output:

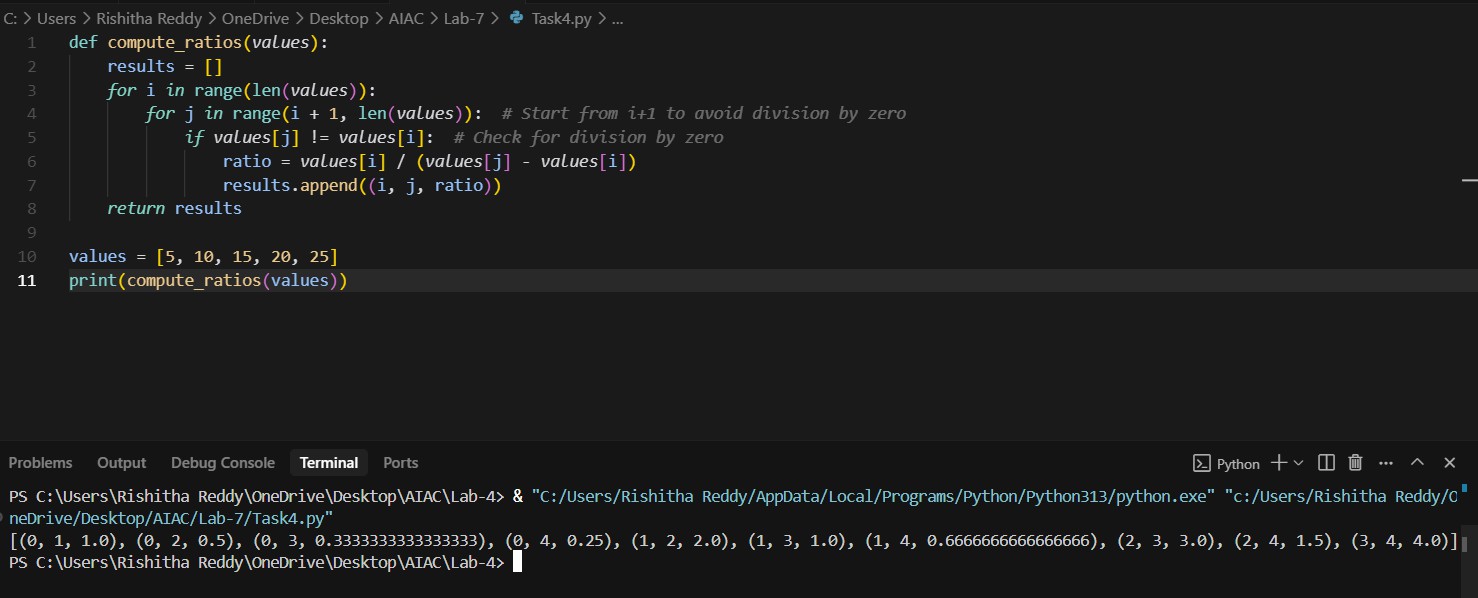


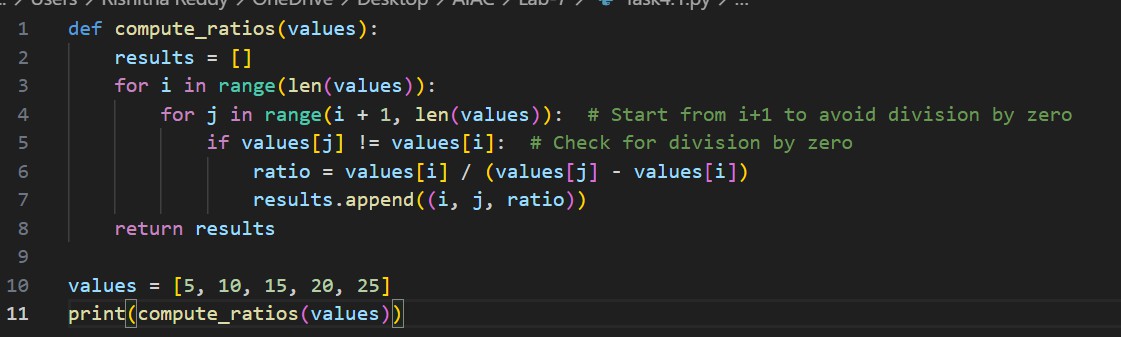
OUTPUT:



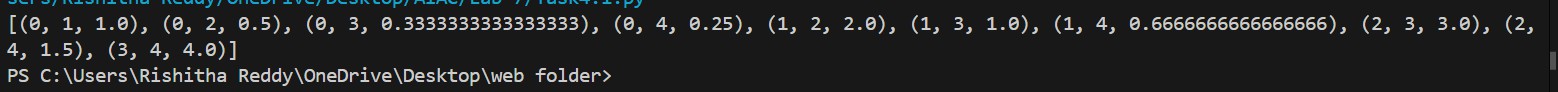
# Task Description #4:

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



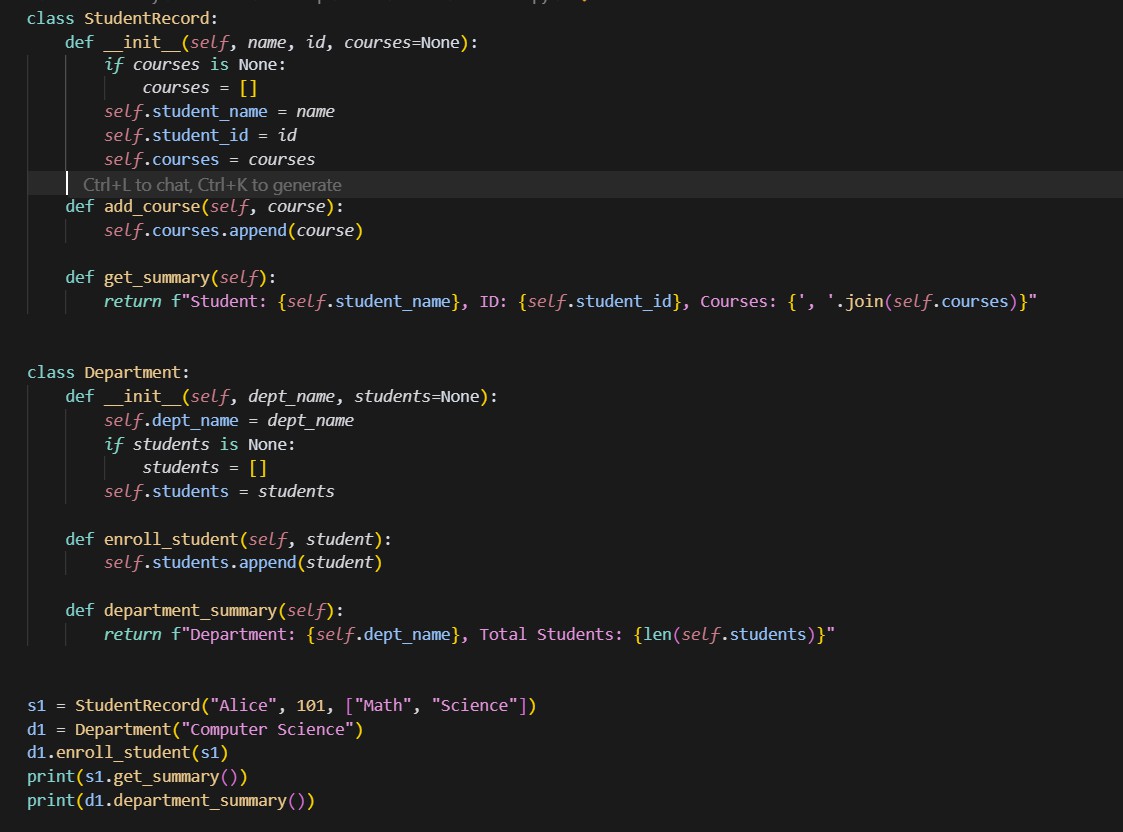


Output:



# Task Description #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:

