AI ASSISTED CODING

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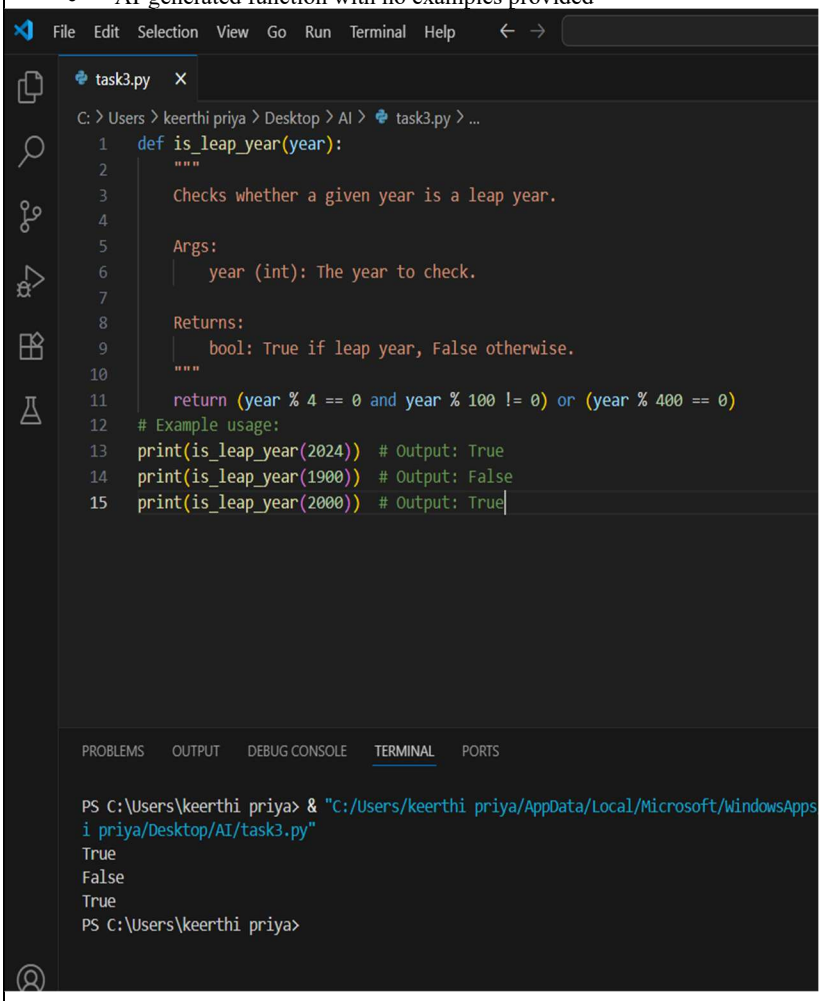
ASSIGNMENT:4.3

Task Description#1

- Zero-shot: Prompt AI to write a function that checks whether a given year is a leap year.

Expected Output#1

- AI-generated function with no examples provided



Task Description#2

- One-shot: Give one input-output example to guide AI in writing a function that converts centimeters to inches.

Expected Output#2

- Function with correct conversion logic

writing a function that converts centimeters to inches. ONLY THIS CODE

task3.py

Used 1 reference

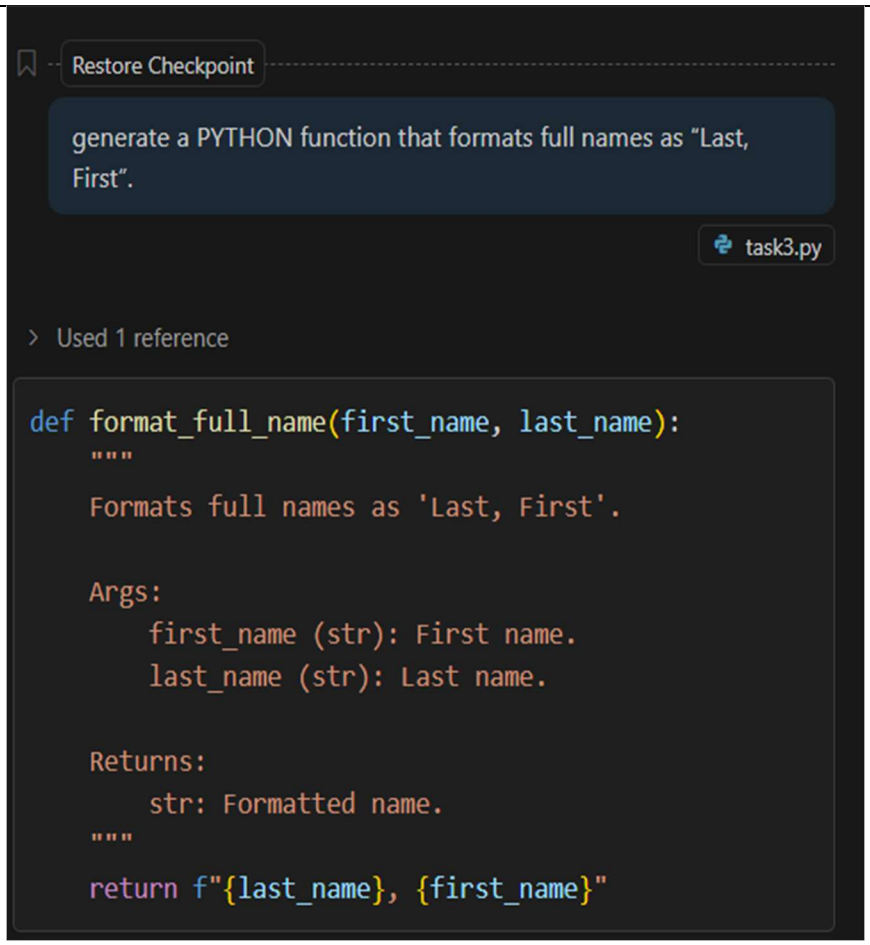
```
def cm_to_inches(cm):
    """
    Converts centimeters to inches.

    Args:
        cm (float): Length in centimeters.

    Returns:
        float: Length in inches.
    """
    return cm / 2.54
```

Task Description#3

- Few-shot: Provide 2–3 examples to generate a function that formats full names as "Last, First".

Expected Output#3

- Well-structured function respecting the examples

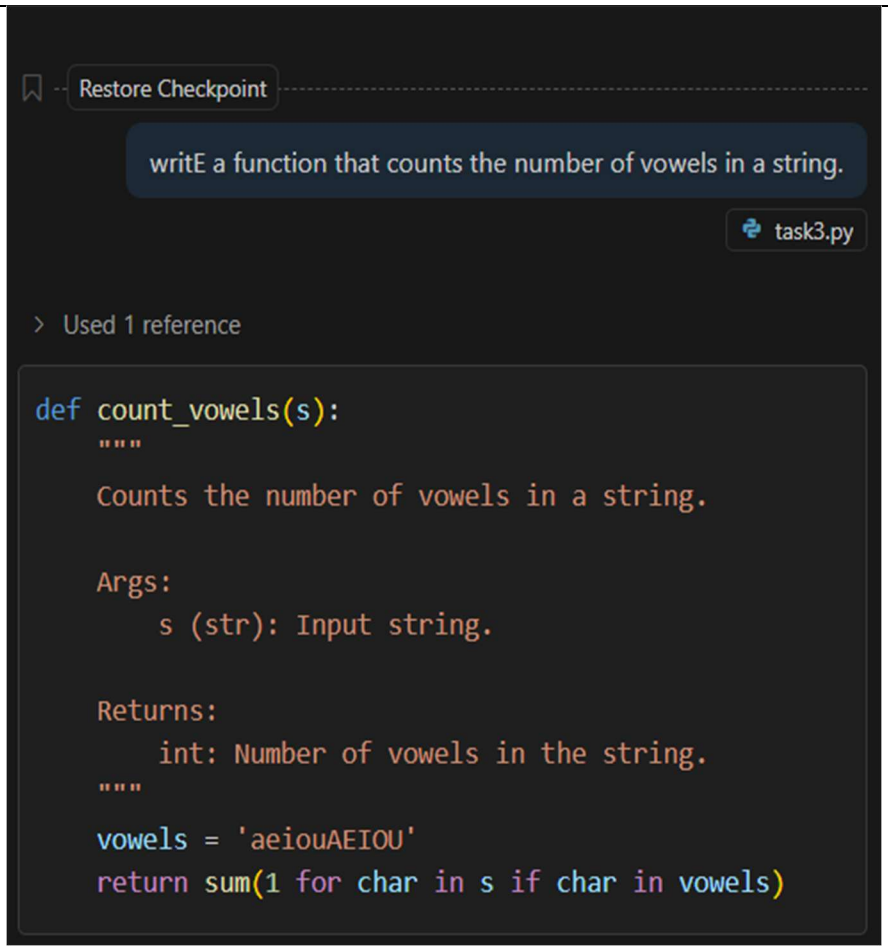


Task Description#4

- Compare zero-shot and few-shot prompts for writing a function that counts the number of vowels in a string.

Expected Output#4

- Functional output and comparative reflection

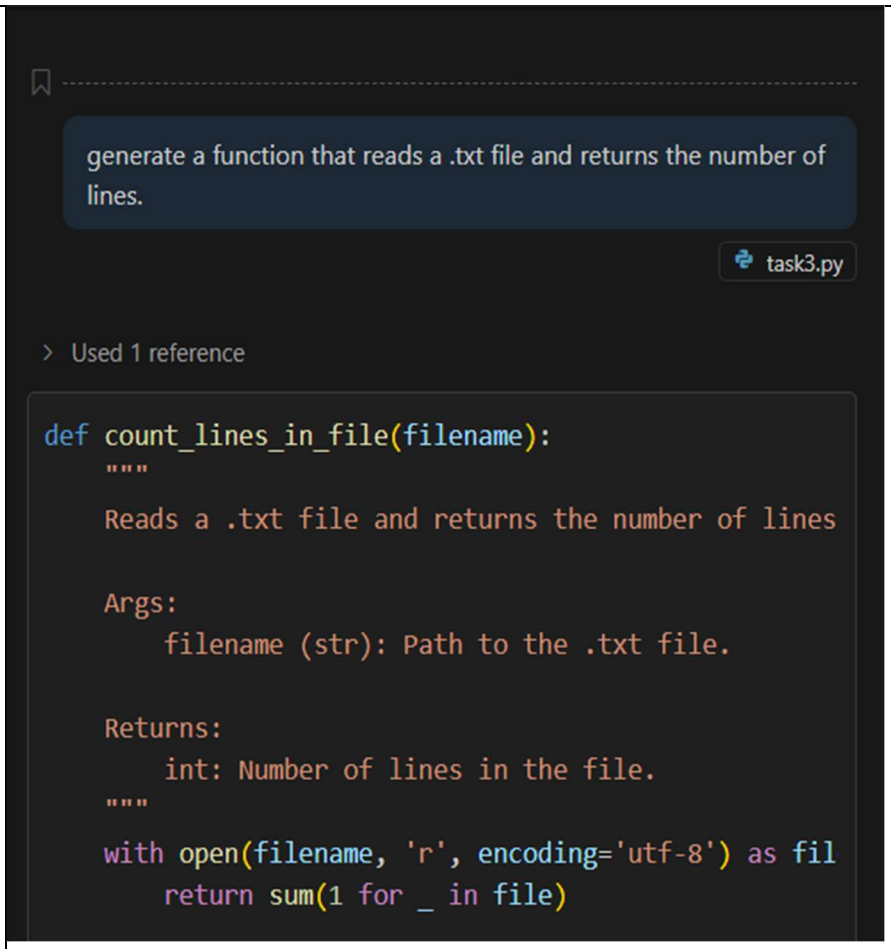


Task Description#5

- Use few-shot prompting to generate a function that reads a .txt file and returns the number of lines.

Expected Output#5

- Working file-processing function with AI-guided logic



Note: Report should be submitted a word document for all tasks in a single document with prompts, comments & code explanation, and output and if required, screenshots

Evaluation Criteria:

Criteria	Max Marks
Zero Shot (Task #1)	0.5
One Shot (Task#2)	0.5
Few Shot (Task#3 & Task #5)	1.0
Comparison (Task#4)	0.5
Total	**2.5 Marks**