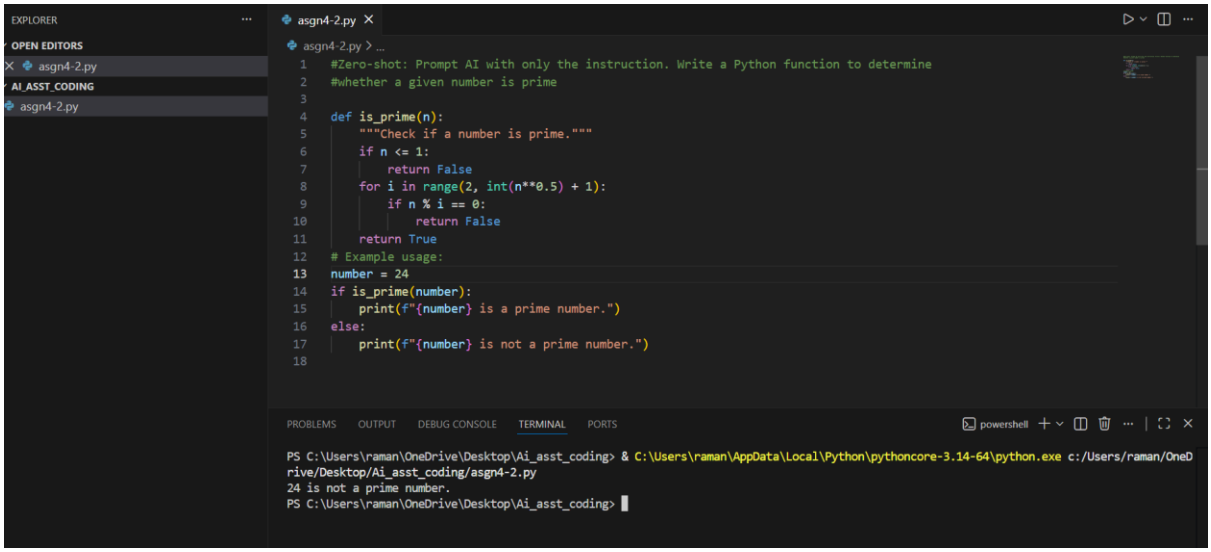
AI Assisted Coding

Assignment - 4.2

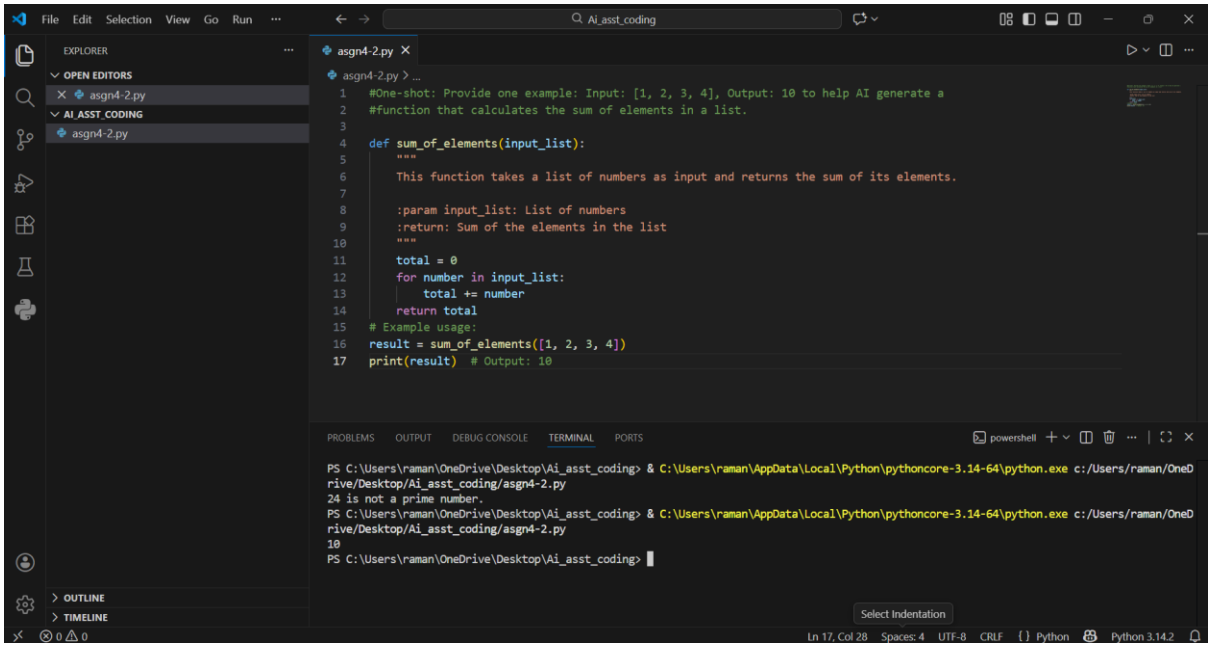
Task – 1

Zero-shot: Prompt AI with only the instruction. Write a Python function to determine whether a given number is prime.



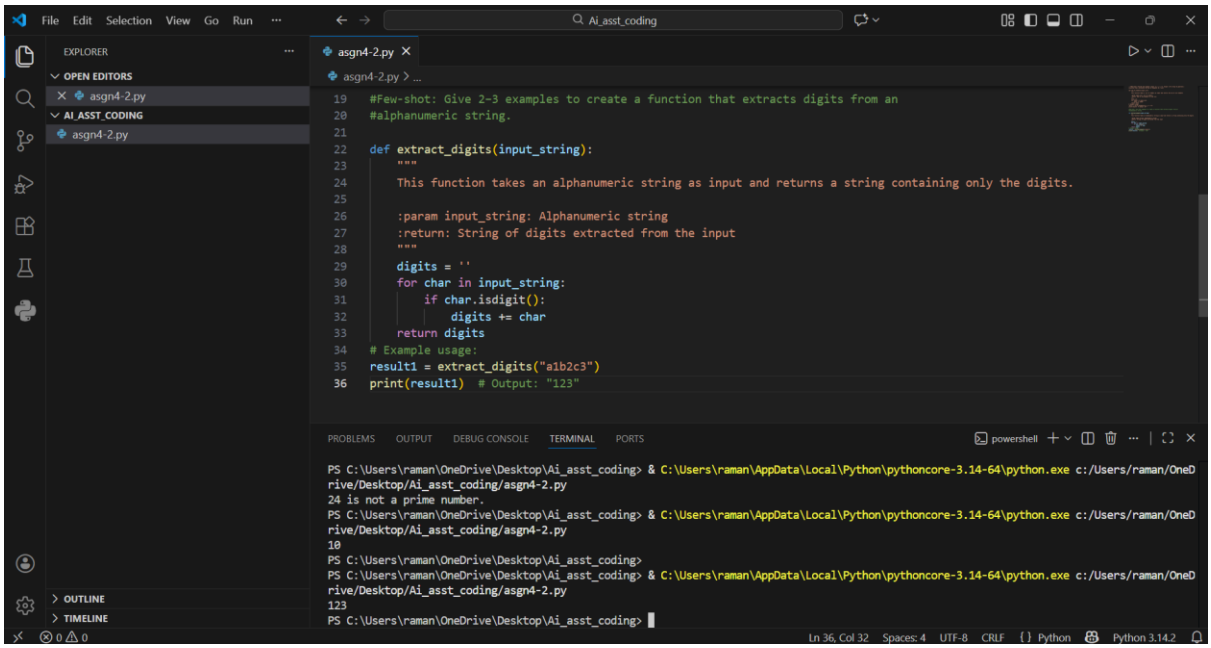
Task - 2

One-shot: Provide one example: Input: [1, 2, 3, 4], Output: 10 to help AI generate a function that calculates the sum of elements in a list.



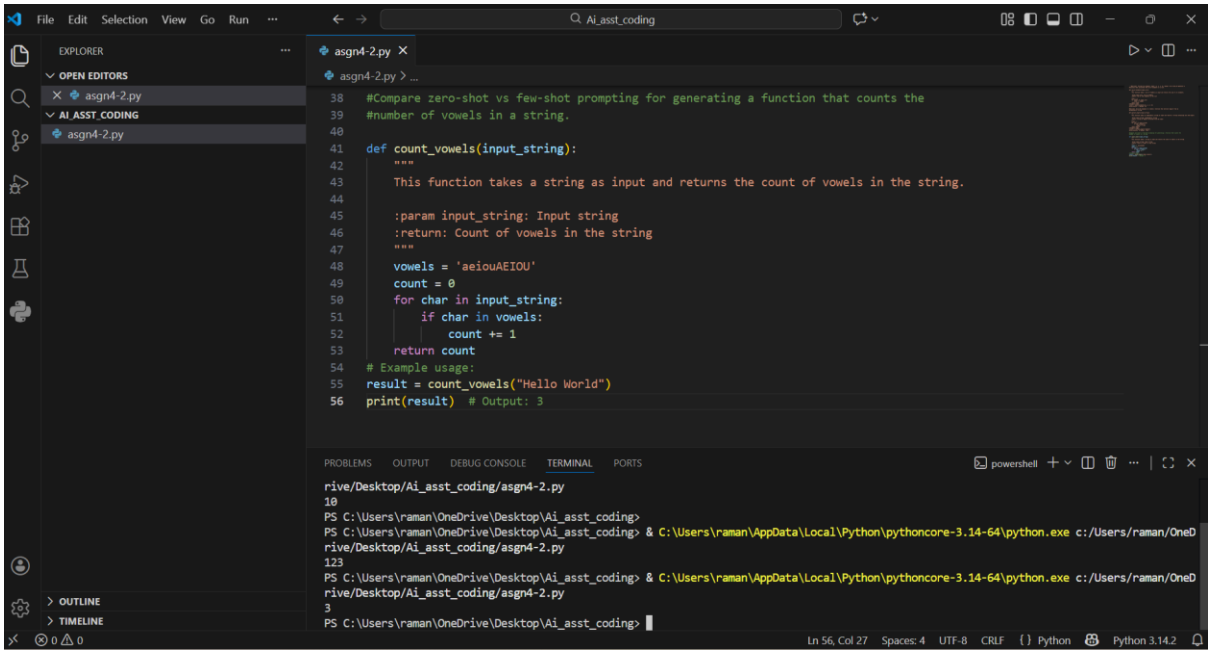
Task – 3

Few-shot: Give 2–3 examples to create a function that extracts digits from an alphanumeric string.



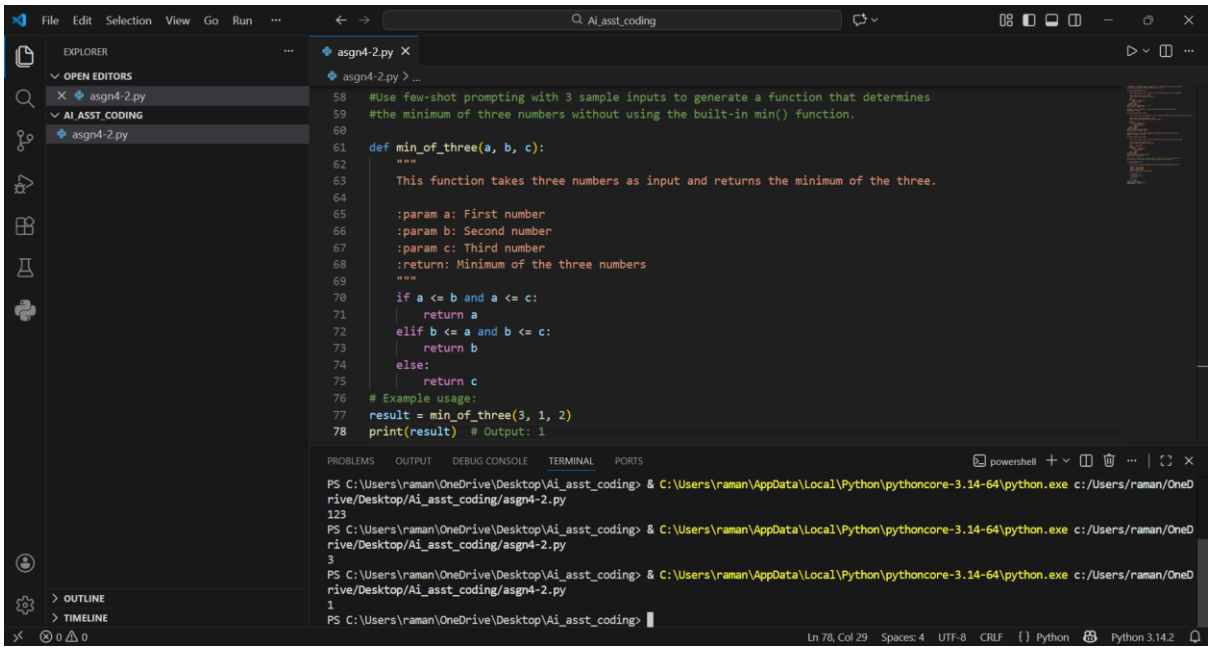
Task – 4

Compare zero-shot vs few-shot prompting for generating a function that counts the number of vowels in a string.



Task – 5

Use few-shot prompting with 3 sample inputs to generate a function that determines the minimum of three numbers without using the built-in min() function.



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