AIAC Lab Assignment 4.2

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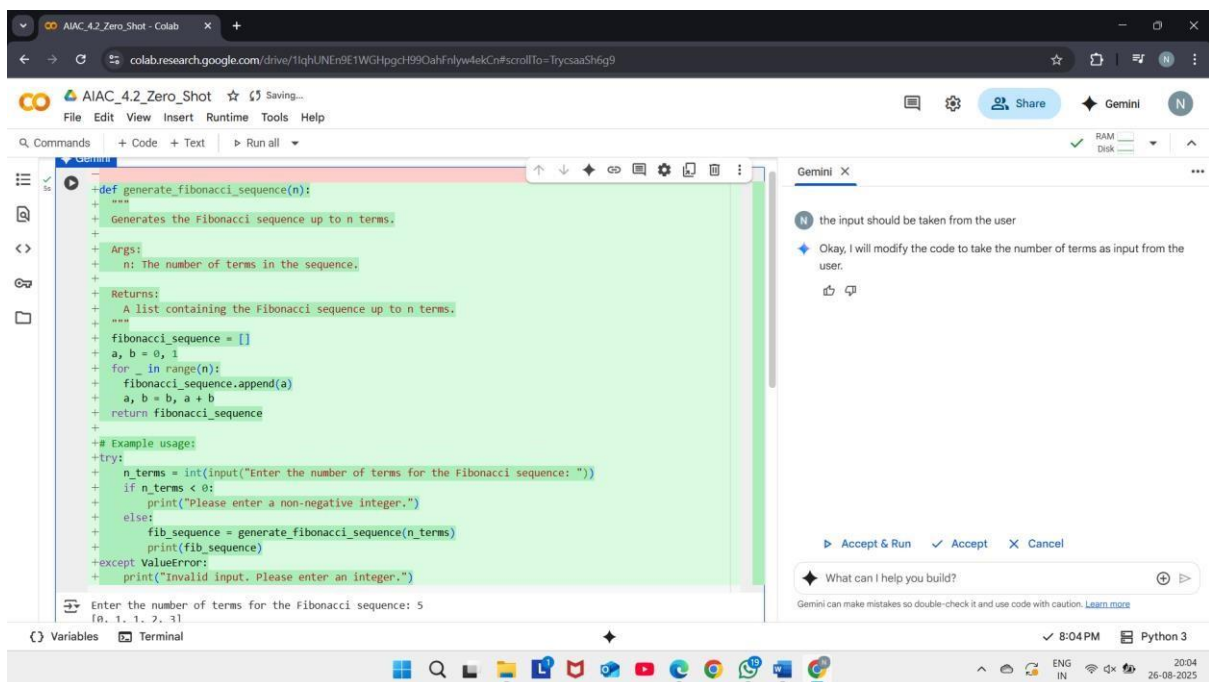
Batch : AI 01-02

Subject : AI Assisted Coding

Task – 1

Task description :

Zero-shot: Prompt AI with only the instruction — Write a Python function to generate the Fibonacci sequence up to n terms

Prompt:

Generate the python function, to calculate the Fibonacci sequence upto n terms. Take input from the user.

Task – 2

Task description:

Provide one example: Input: 100, Output: 37.78 to help AI generate a function that converts Fahrenheit to Celsius.

Prompt:

The user wants to calculate the temperature conversion from Celsius to farenheit. Generate the python function, to calculate the temperature conversion from Celsius to farenheit. Take input from the user.
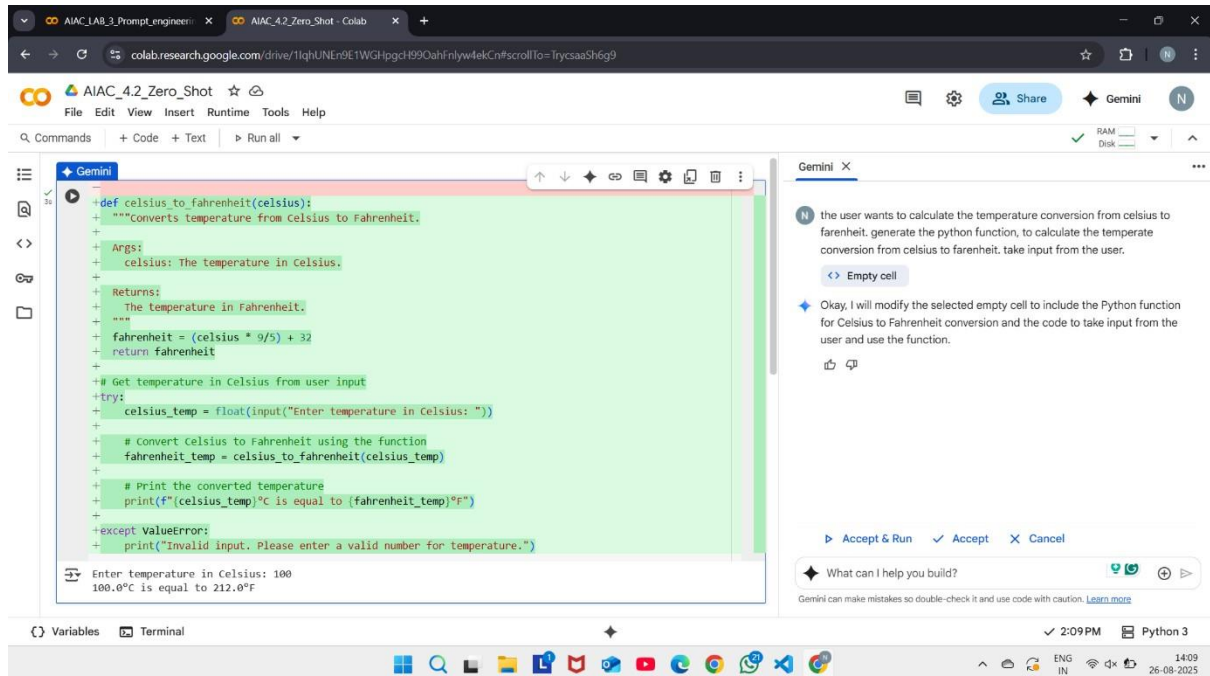
Task – 3

Task Description:

Few-shot: Give 2–3 examples to create a function that extracts the domain name from an email address

Prompt:

Take an email as an input from the user and print only domain part of the email from the given email. (example input:navadeep566@yahoo.com , output: @yahoo.com). Take the email input from the user.
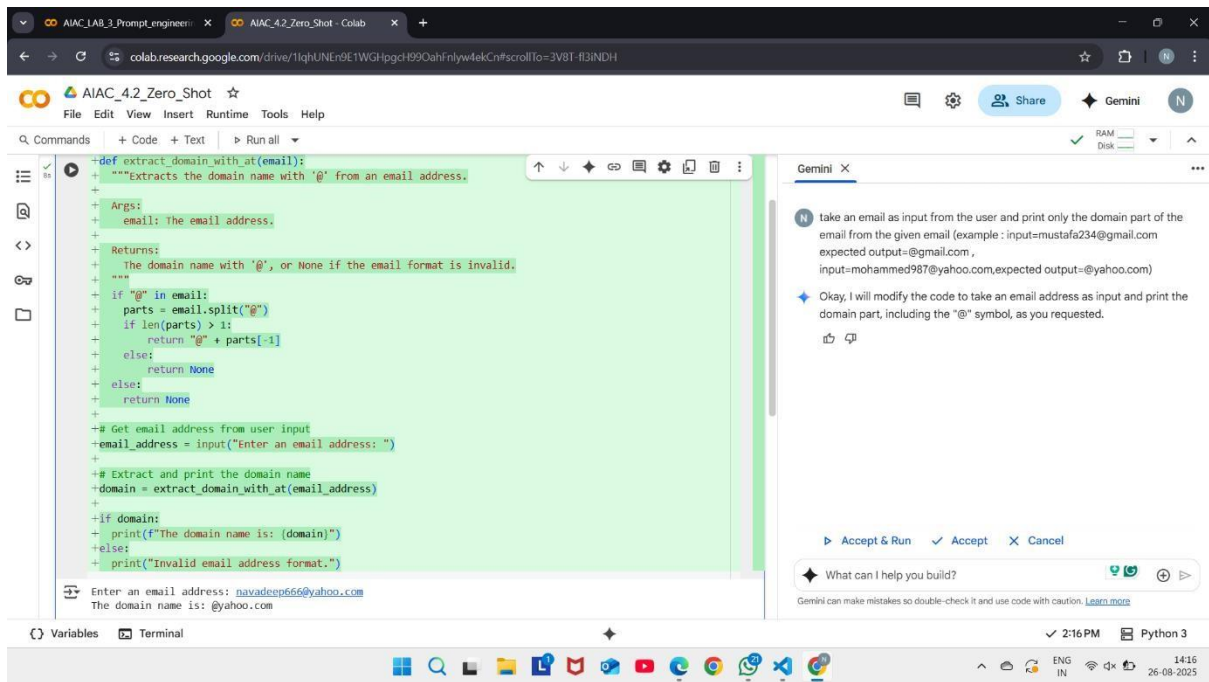
Task – 4

Task Description:

Compare zero-shot vs few-shot prompting for generating a function that checks whether a word is a palindrome, ignoring punctuation and case.

Prompt:

generate a python code to calculate the palindrome of an string.(example : input: naman, output: it is palindrome). take input from the user
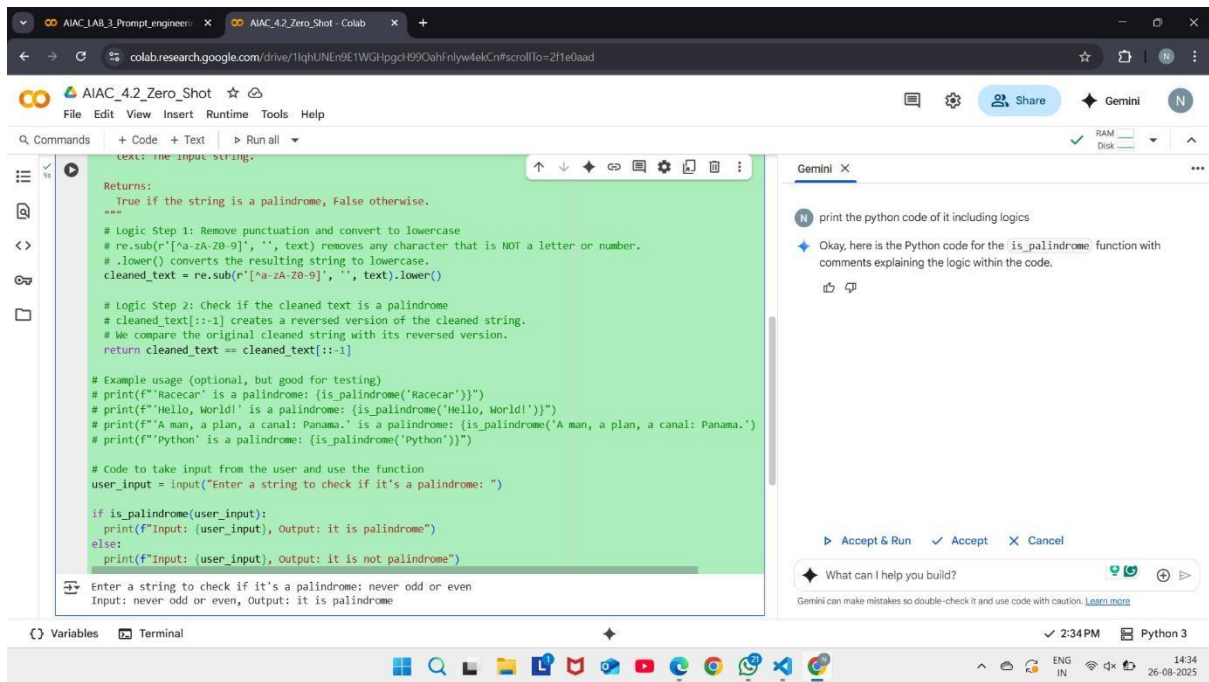
Task – 5

Task Description:

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

Prompt:

generate a python code that determines the maximum of three numbers without using the built-in max() function. (example, input:3,3,4 output:4 is the gargest number).take the numbers as input from the user.the user should not enter the same number more than one time.

Q Commands   + Code + Text   ▷ Run all ▼

◆ Gemini

```python
# Get three numbers as input from the user
try:
    num1 = float(input("Enter the first number: "))
    num2 = float(input("Enter the second number: "))
    num3 = float(input("Enter the third number: "))

    # Determine the maximum number without using max()
    maximum = num1
    if num2 > maximum:
        maximum = num2
    if num3 > maximum:
        maximum = num3

    # Print the output in the specified format
    print(f"Input:{num1},{num2},{num3} output:{maximum} is the largest number")

except ValueError:
    print("Invalid input. Please enter valid numbers.")
```

```
Enter the first number: 2
Enter the second number: 3
Enter the third number: 4
Input:2.0,3.0,4.0 output:4.0 is the largest number
```

Gemini ✕

> generate a python code that determines the maximum of three numbers without using the built-in max() function. (example, input:3,3,4 output:4 is the gargest number).take the numbers as input from the user

◆ Okay, I can generate the Python code to find the maximum of three numbers without using the `max()` function, taking input from the user and printing the output in the format you specified.

👍 👎

▷ Accept & Run   ✓ Accept   ✕ Cancel

◆ What can I help you build?   ⊕ ▷

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

{} Variables   ▶ Terminal   ✓ 2:37 PM   🖥 Python 3