

AIAC Lab Assignment 4.2

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Batch : AI 01-02

Subject : AI Assisted Coding

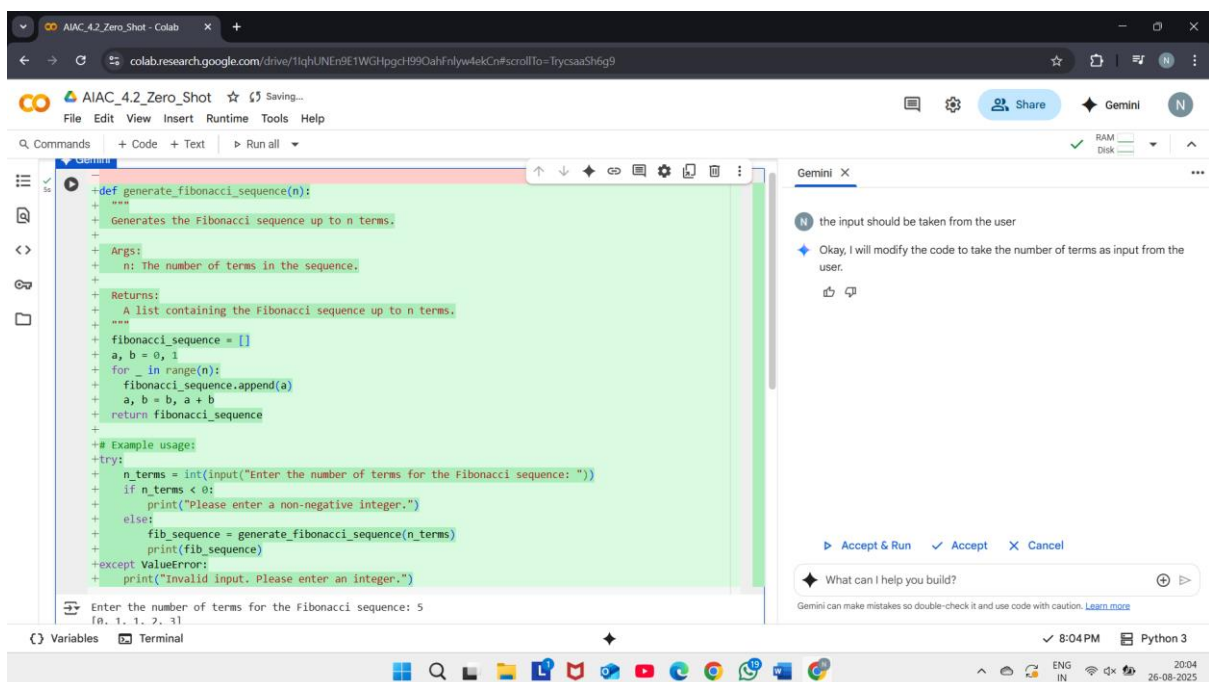
Task – 1

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.



The screenshot displays a Google Colab notebook titled "AIAC_4.2_Zero_Shot". The code in the notebook defines a function `generate_fibonacci_sequence(n)` that generates the Fibonacci sequence up to `n` terms. The function includes docstrings for its purpose, arguments, and return value. It initializes a list `fibonacci_sequence` and uses a loop to calculate the sequence. An example usage is provided, showing a user input of 5 terms resulting in the sequence [0, 1, 1, 2, 3].

Below the code, the Gemini AI chat interface is visible. It shows a prompt: "the input should be taken from the user". The AI's response is: "Okay, I will modify the code to take the number of terms as input from the user." The interface includes buttons for "Accept & Run", "Accept", and "Cancel". At the bottom, there is a text input field with the placeholder "What can I help you build?" and a "Gemini" logo.

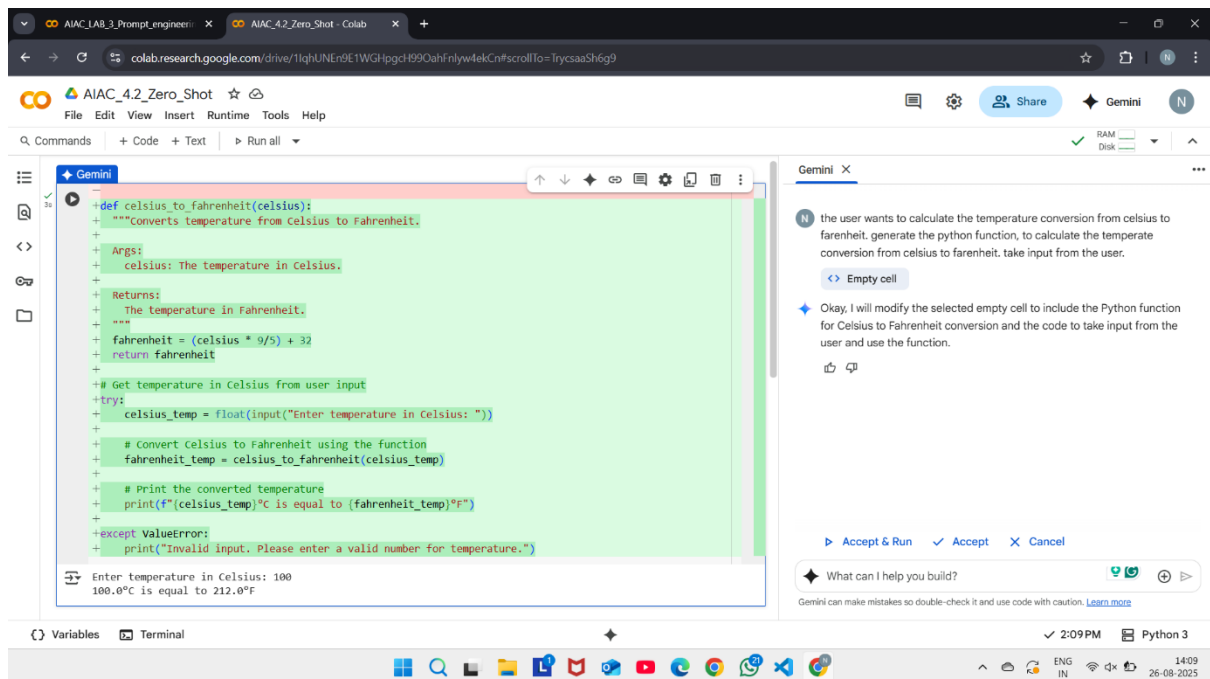
Task – 2

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 fahrenheit. Generate the python function, to calculate the temperature conversion from Celsius to fahrenheit. Take input from the user.



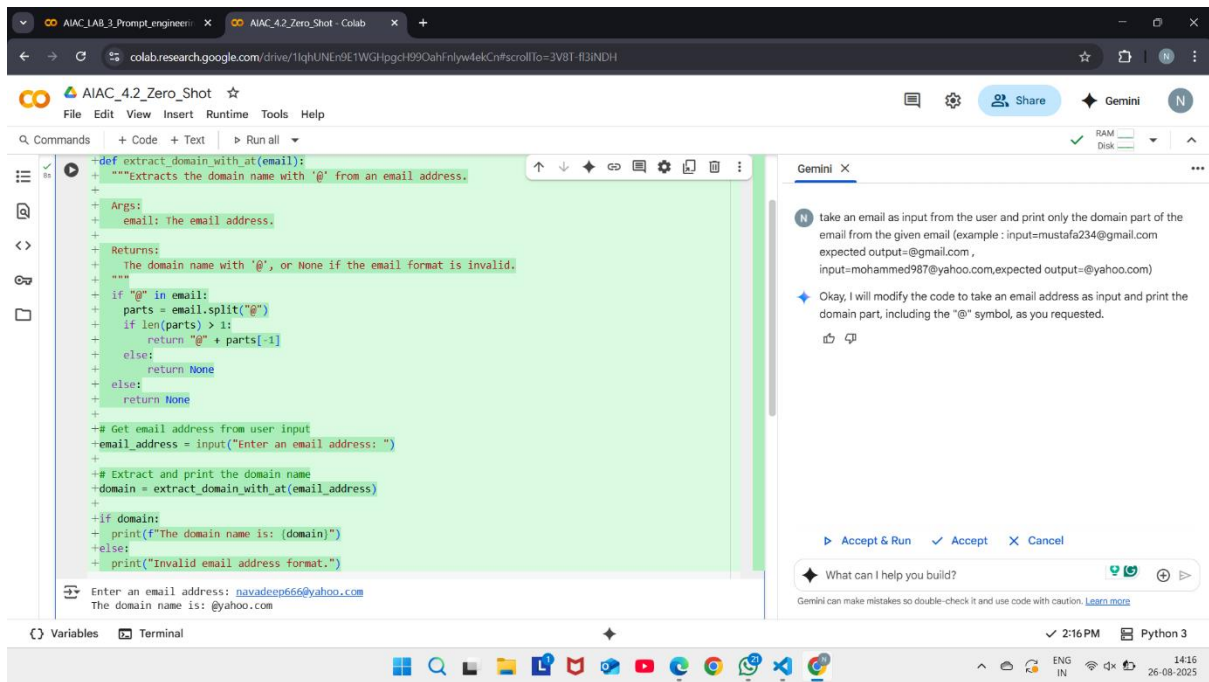
Task – 3

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.



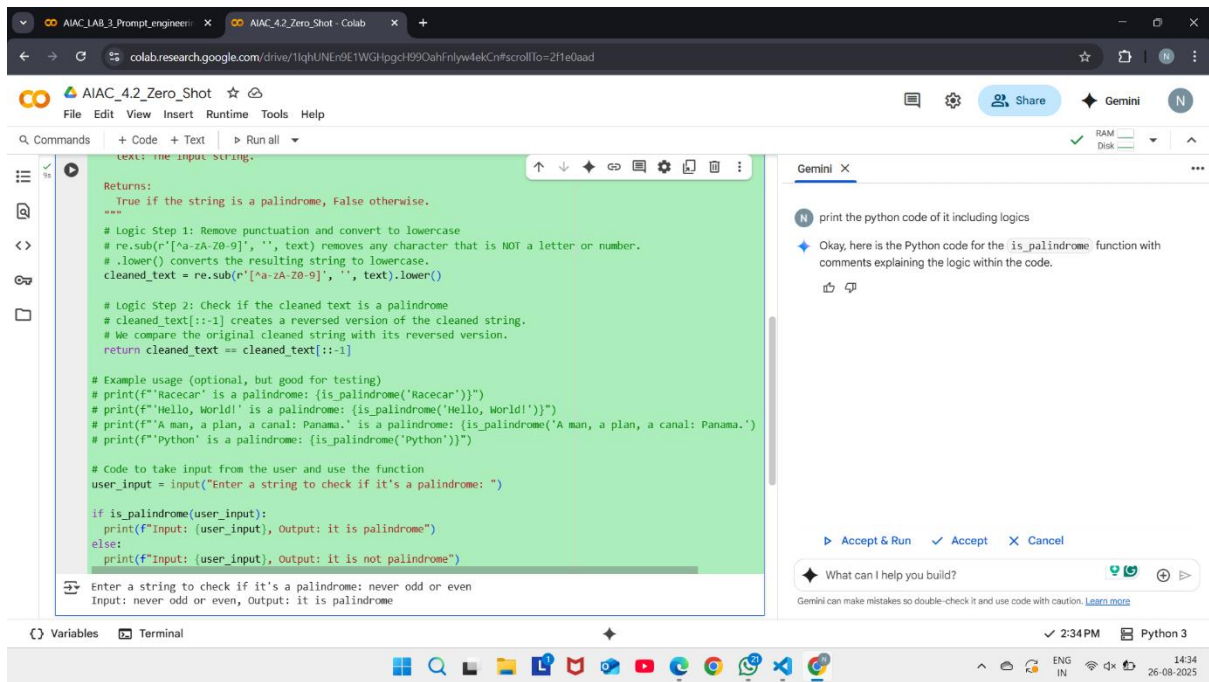
Task – 4

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.

AIAC_1A8_3_Prompt_Engineer AIAC_4_2_Zero_Shot

colab.research.google.com/drive/1lqhUNEr9ETWGHpgdH99OahfNlyw4ekCn#scrollTo=-5070d198

AIAC_4_2_Zero_Shot

File Edit View Insert Runtime Tools Help

Commands Code Text Run all

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

14:38 26-08-2025