AI-Assisted Coding

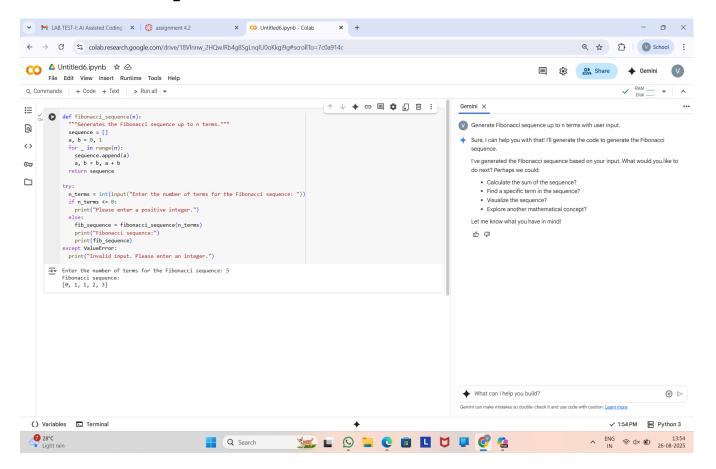
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Task-1:

Prompt: Generate Fibonacci sequence up to n terms with user input.

Code&Output:

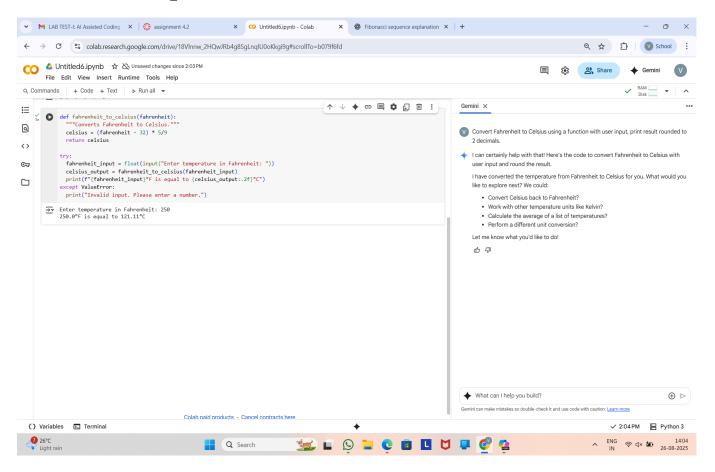


Observation: The fibonacci_sequence(n) function builds the sequence by starting with 0 and 1, then repeatedly adding the last two numbers to get the next.

Task-2:

Prompt: Convert Fahrenheit to Celsius using a function with user input, print result rounded to 2 decimals.

Code&Output:

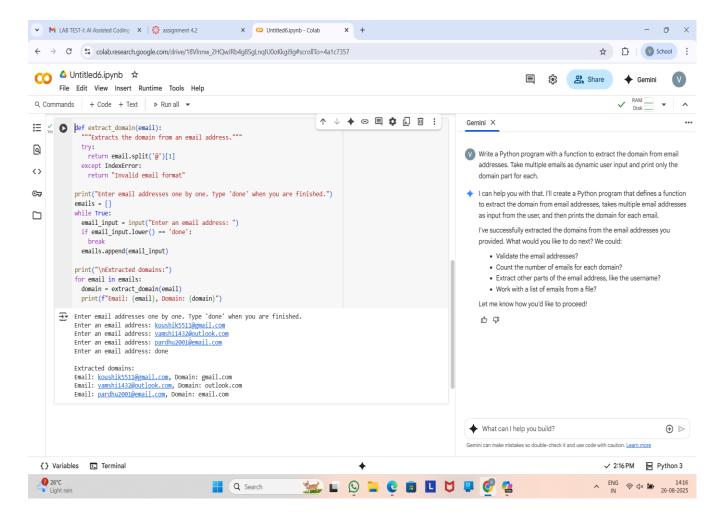


Observation: The gemini generates a function which converts a Fahrenheit to the Celsius, as I give the example, it may checks the example and give the exact suitable function to it.

Task-3:

Prompt: Write a Python program with a function to extract the domain from email addresses. Take multiple emails as dynamic user input and print only the domain part for each.

Code&Output:



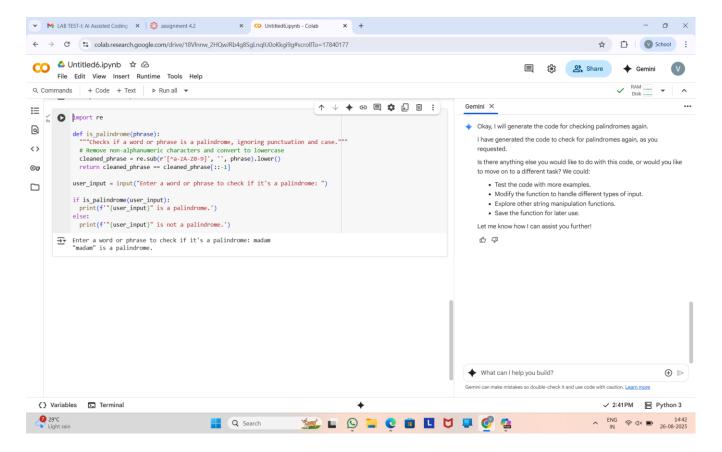
Observation: The code correctly extracts the domain portion of a valid email and gives an appropriate error message if the @ symbol is missing. However, it does not handle other invalid cases (like multiple @ symbols or missing domain part).

Task-4:

Prompt: Write a Python program with a function to check if a word or phrase is a palindrome, ignoring punctuation and case. Take dynamic user input and print whether it is a palindrome or not for example

input:madam and output is "madam" is a palindrome and input:vamshi and output is "vamshi" is not a palindrome

Code&Output:

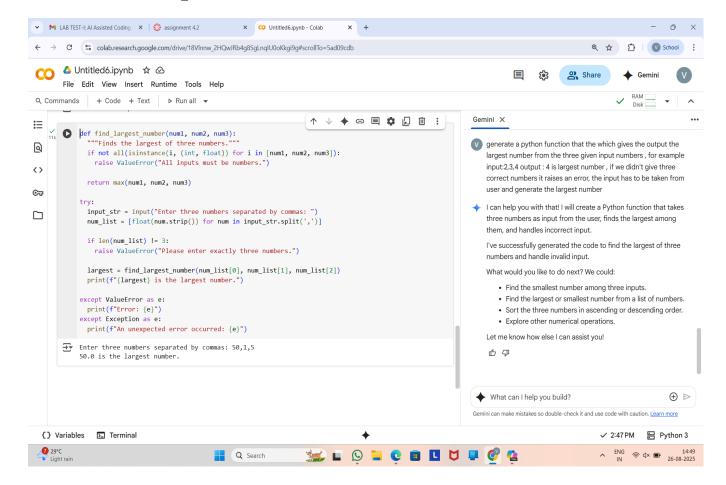


Observation: The code given and also even the output will be the same for the both codes, but the few -shot prompt given examples gives a clarity that they guide both the code logic and the validation of correctness.

Task-5:

Prompt: Generate a python function that the which gives the output the largest number from the three given input numbers, for example input:2,3,4 output: 4 is largest number, if we didn't give three correct numbers it raises an error, the input has to be taken from user and generate the largest number.

Code&Output:



Observation: The code correctly takes three numbers as input from the user, validates that exactly three values are provided, and finds the largest among them. It also handles errors gracefully. However, it uses

Python's built-in max() function, like the prompt asked to raises an error—so the logic works, then it fully satisfy the given requirement.