AI ASSISTED CODING

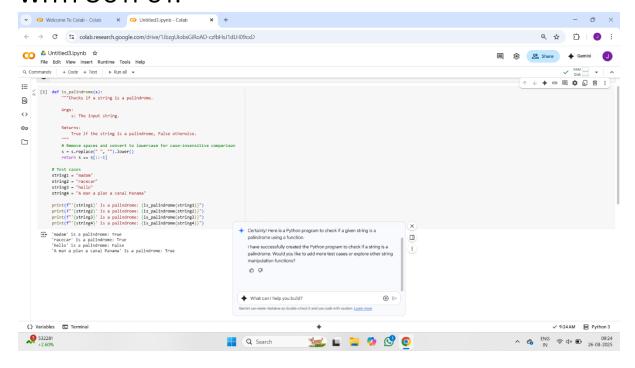
LAB EXAM -1

TASK-1:

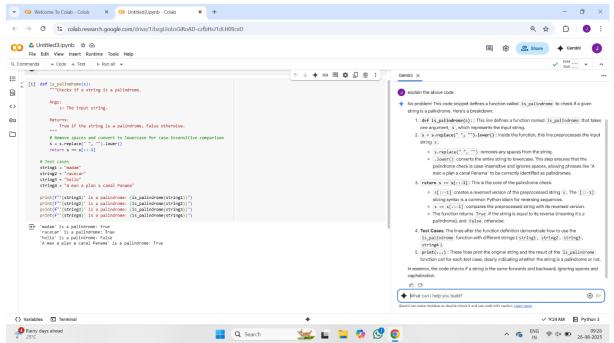
TO FIND WHETHER THE GIVEN NUMBER IS PALINDROME OR NOT

CODE SCREENSHOTS

WITH OUTPUT:

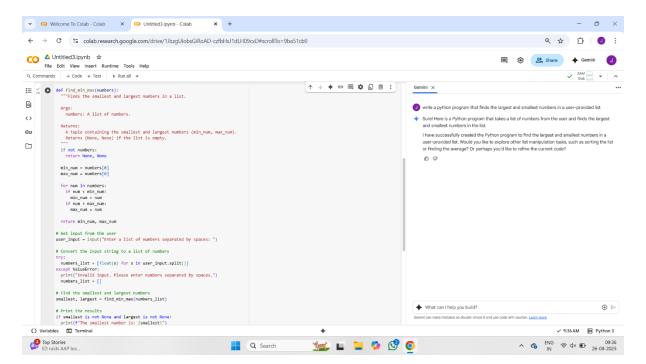


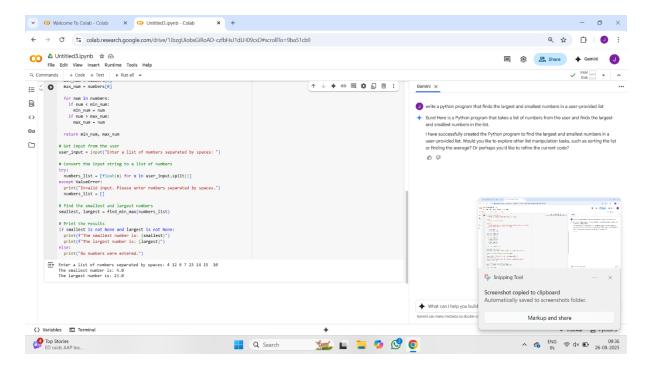
Code explanation:



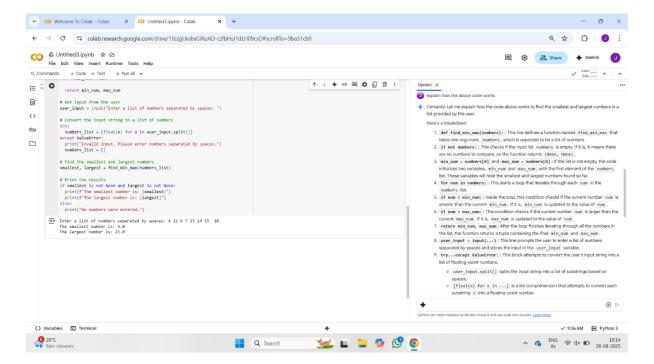
2. Write a python program to find the largest and the smallest numbers by user provided list and ask gemini to give step by step explanation of code

CODE:





CODE EXPLANATION:



the list, the function returns a tuple containing the final min_num and max_num.

- 8. **user_input** = **input(...)**: This line prompts the user to enter a list of numbers separated by spaces and stores the input in the user input variable.
- try...except ValueError: This block attempts to convert the user's input string into a list of floating-point numbers.
 - user_input.split() splits the input string into a list of substrings based on spaces.
 - [float(x) for x in ...] is a list comprehension that attempts to convert each substring x into a floating-point number.
 - If the conversion fails for any substring (e.g., the user enters text that is not a number), a ValueError occurs, and the code inside the except block is executed.
 - The except block prints an error message and sets numbers_list to an empty list.
- 10. smallest, largest = find_min_max(numbers_list): This line calls the find_min_max function with the list of numbers obtained from the user input and assigns the returned smallest and largest values to the smallest and largest variables.
- 11. if smallest is not None and largest is not None: : This checks if the find min max function returned actual numbers (i.e., the input list was not empty).
- 12. **print(...)**: If smallest and largest are not None, these lines print the smallest and largest numbers found. Otherwise, it prints a message indicating that no numbers were entered

In summary, the code gets a string of space-separated numbers from the user, converts it into a list of numbers, and then iterates through the list to find and report the smallest and largest values.

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explain it in a simple way