TASK DESCRIPTION:

Use copilot to check if a number is is prime()

Expected output:

Case1: True if number has only two factors including itself as factor

Case 2:False if number has more than two factors

Prompt:

Generate a python code to check if a user defined number is Prime

Output:

Enter a number: 27 27 is not a prime number.

Task Description:

Use copilot to find reverse a given String

Expected output:

Reverse a String Code given by Copilot

OUTPUT:

Enter a string to reverse: reverse Reversed string: esrever

Conclusion:

We used Copilot to get the code to reverse a String which is user defined

It used slicing technique to reverse the String

In the above we have given input as reverse and the output is its reverse

TASK Description:

GENERATE BOTH RECURSIVE AND ITERATIVE VERSIONS OF A FACTORIAL FUNCTION USING COMMENTS.

Expected Output:

Enter a number:5

Factorial of 5 using loop:120

Factorial of 5 using Recursion:120

CODE:

CODE OUPUT:

```
Enter a number: 5
Factorial of 5 using loop: 120
Factorial of 5 using recursion: 120
```

CONCLUSION:

we have used Copilot to get the code to find out the factionial of a number using both loops like while, for, and recursion

and it has defined two functions one is for using loops and other is for using recursions

TASK Description:

USE COPILOT TO FIND THE LARGEST NUMBER IN A LIST. ASSESS CODE QUALITY AND EFFICIENCYSSSS

CODE:

```
generate a python code to find largest number in user given elements of a list

Ask Copilot

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# Get input from user

elements = input("Enter numbers separated by spaces: ").split()

# Convert input strings to inte (variable) elements: list[str]

numbers = [int(num) for num in elements]

# Find the largest number

largest = max(numbers)

print("The largest number is:", largest)
```

OUTPUT:

```
Enter numbers separated by spaces: 1 2 3 4 5 6 4 3 4 5 77 65 898

The largest number is: 898
```

CONCLUSION:

We have used COPILOT to get the code in which it created an emty list and appended elements from the user with a space between each element

And finally Displayed the largest among them

We have used a built in function i.e max()

With the help of it we can find the max of a list