1Q- Generate a python function code to find largest number in a list, assess the quality and efficiency of code.

```
AlLabAssign-5 > ...

1 import random

ignort random
```

2Q- Generate a python function code to reverse a string

```
## Al LabAssign-3 > ...

| def reverse_string():
| user_input = input("Enter a string to reverse: ")
| reversed_str = user_input[::-1]
| print("Reversed string:", reversed_str)
| # Call the function
| reverse_string()

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Enter a string to reverse: nitin
| Reversed string: nitin
| PS C:\2403A52029> []
```

3Q-Generate a python function code to find factorial recursion and iteration.

```
AllabAssign → > ...

### Recursive version of factorial

### def factorial_recursive(n):

### Returns the factorial of n using recursion.

### return n * factorial_recursive(n - 1)

### ### return n * factorial_recursive(n - 1)

### ### Returns the factorial of n using iteration.

### ### Returns the factorial of n using iteration.

#### Returns the factorial of n using iteration.

### result = 1

### return result

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```

4Q- Generate a python function code to check number is a prime or not.

```
🕏 Al LabAssign-2.txt > 🛇 is_prime
     def is_prime(n):
        if n <= 1:
       if n == 2:
        if n % 2 == 0:
        for i in range(3, int(n ** 0.5) + 1, 2):
        if n % i == 0:
   if __name__ == "__main__":
      num = int(input("Enter a number: "))
        if is_prime(num):
        print(f"{num} is a prime number.")
 PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
Enter a number: 11
11 is a prime number.
PS C:\2403A52029>
```