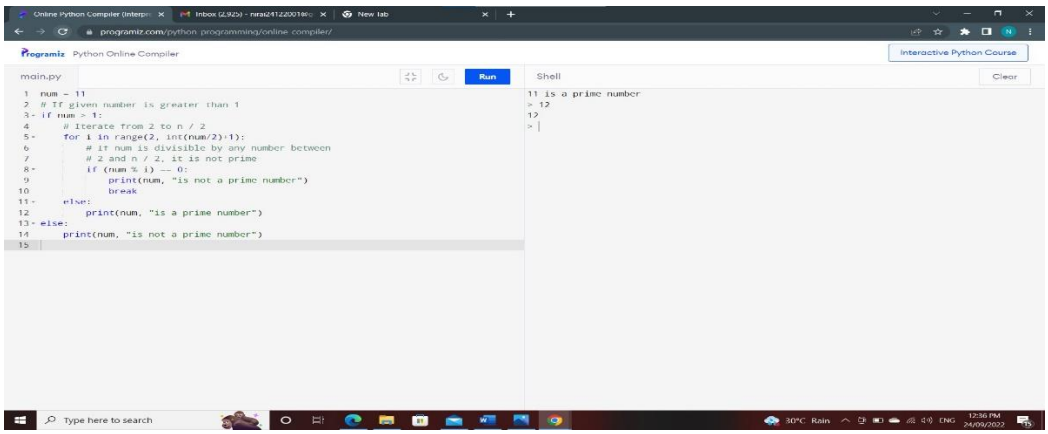
Assignment no - 1

Date	24.09.2022
Student Name	R.Keerthivasan
Reg.No	820419106024
Maximum Marks	2 marks

1.write a python program to test a given number is prime or not

Solution:

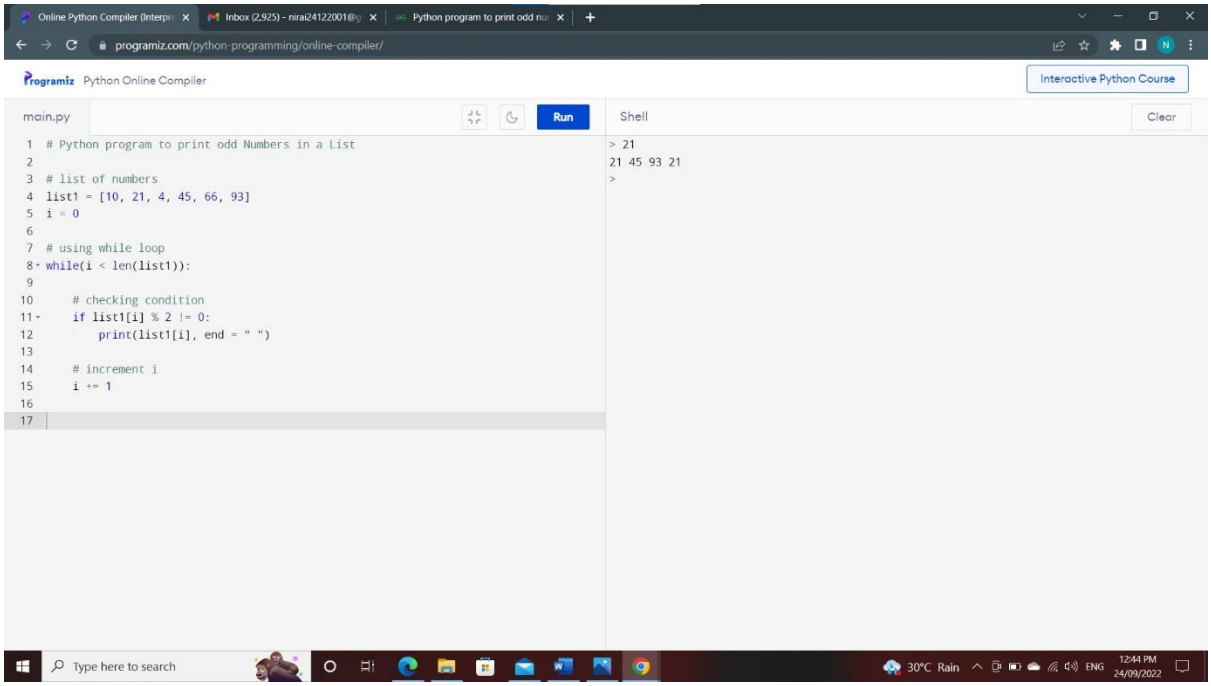
```
num = 11

# If given number is greater than 1

if num > 1:

        # Iterate from 2 to n / 2

        for i in range(2, int(num/2)+1):

                # If num is divisible by any number between

                # 2 and n / 2, it is not prime

                if (num % i) == 0:

                        print(num, "is not a prime number")

                        break

        else:

                print(num, "is a prime number")

else:

        print(num, "is not a prime number")
```



2.write a python program to generate odd numbers from m to n using while loop

Program:

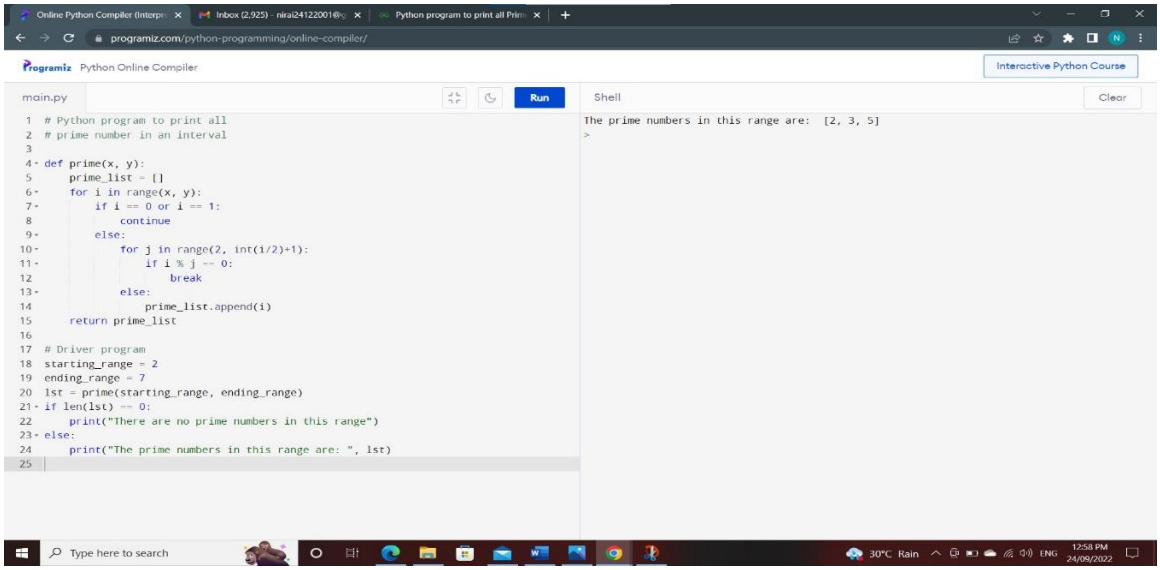
```
# Python program to print odd Numbers in a List


# list of numbers
list1 = [10, 21, 4, 45, 66, 93]
i = 0


# using while loop
while(i < len(list1)):

    # checking condition
    if list1[i] % 2 != 0:
        print(list1[i], end = " ")


    # increment i
    i += 1
```



3.write a python program to display prime number series up to given number

Program:

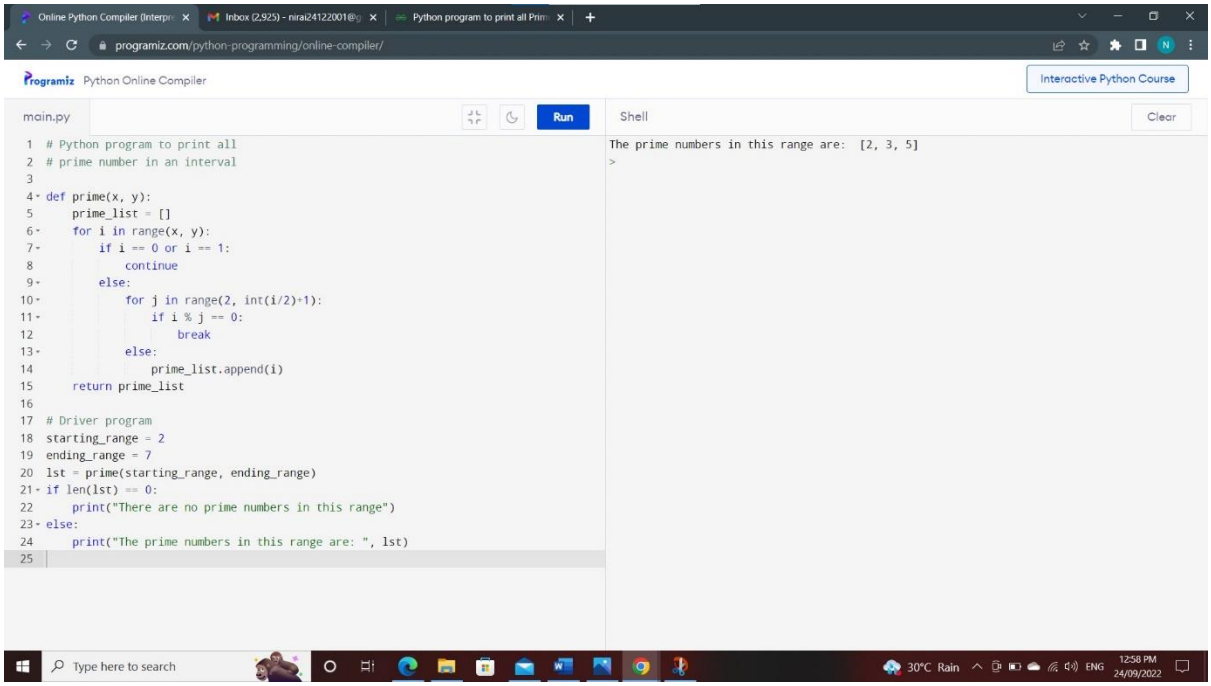
```
# Python program to print all
# prime number in an interval


def prime(x, y):
	prime_list = []
	for i in range(x, y):
		if i == 0 or i == 1:
			continue
		else:
			for j in range(2, int(i/2)+1):
				if i % j == 0:
					break
			else:
				prime_list.append(i)
	return prime_list


# Driver program
starting_range = 2
ending_range = 7
lst = prime(starting_range, ending_range)
if len(lst) == 0:
	print("There are no prime numbers in this range")
else:
	print("The prime numbers in this range are: ", lst)
```



4. write a python program to generate Fibonacci series

Program: series

```
#Python program to generate Fibonacci until 'n' value

n = int(input("Enter the value of 'n': "))

a = 0

b = 1

sum = 0

count = 1

print("Fibonacci Series: ", end = " ")

while(count <= n):

  print(sum, end = " ")

  count += 1

  a = b

  b = sum

  sum = a + b
```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main.py
Run
Shell
Clear
# Python program to print all
# prime number in an interval
def prime(x, y):
prime_list = []
for i in range(x, y):
if i == 0 or i == 1:
continue
else:
for j in range(2, int(i/2)+1):
if i % j == 0:
break
else:
prime_list.append(i)
return prime_list
# Driver program
starting_range = 2
ending_range = 7
lst = prime(starting_range, ending_range)
if len(lst) == 0:
print("There are no prime numbers in this range")
else:
print("The prime numbers in this range are: ", lst)
The prime numbers in this range are: [2, 3, 5]
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24/09/2022