Assignment -3

Python Programming

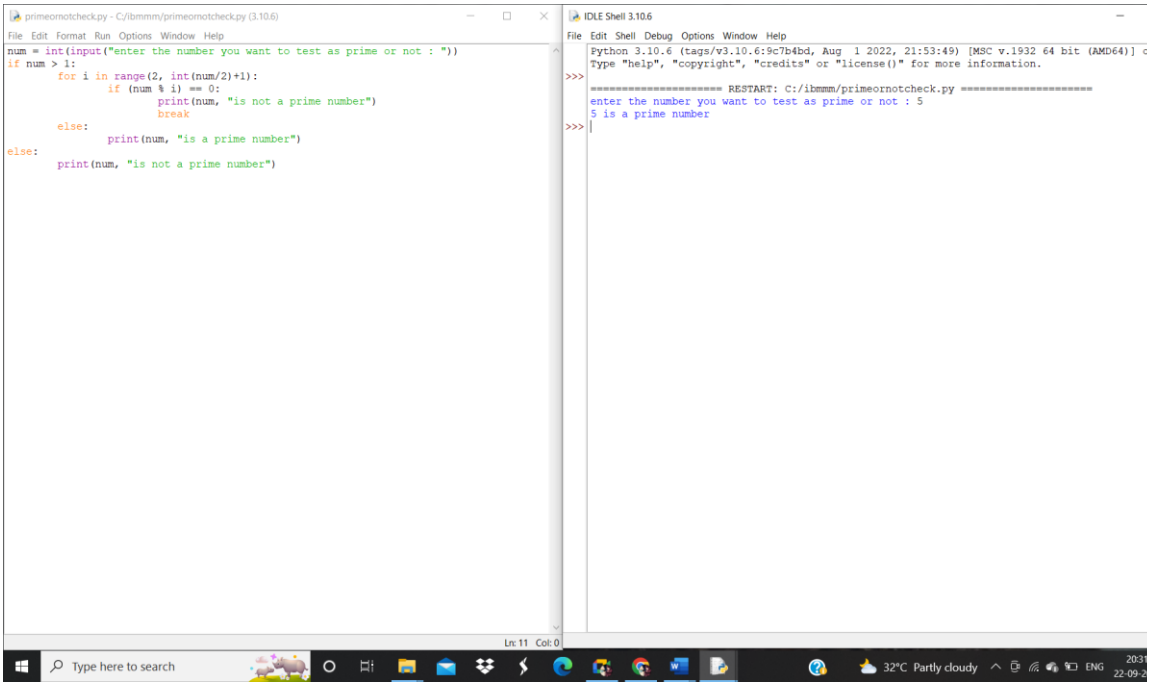
Assignment Date	19 September 2022
Student Name	Ms. Subasri.D.R
Student Roll Number	820419104073
Maximum Marks	2 Marks

Question-1:

Write a python program to test a given number is prime or not

Solution:

```
num = int(input("enter the number you want to test as prime or not : "))
if num > 1:
        for i in range(2, int(num/2)+1):
                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")
```

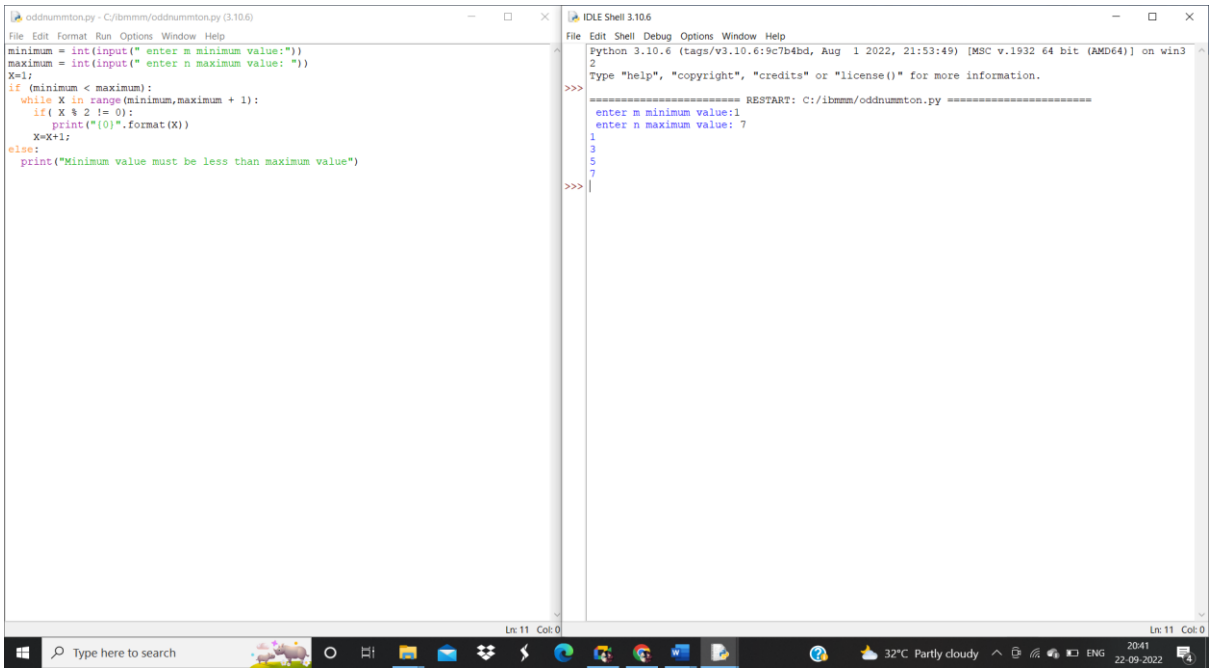


Question-2:

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

Solution:

```
minimum = int(input(" enter m minimum value:"))
maximum = int(input(" enter n maximum value: "))
X=1;
if (minimum < maximum):
  while X in range(minimum,maximum + 1):
    if( X % 2 != 0):
      print("{0}".format(X))
    X=X+1;
else:
  print("Minimum value must be less than maximum value")
```



Question-3:

Write a python program to display prime number series upto a given number

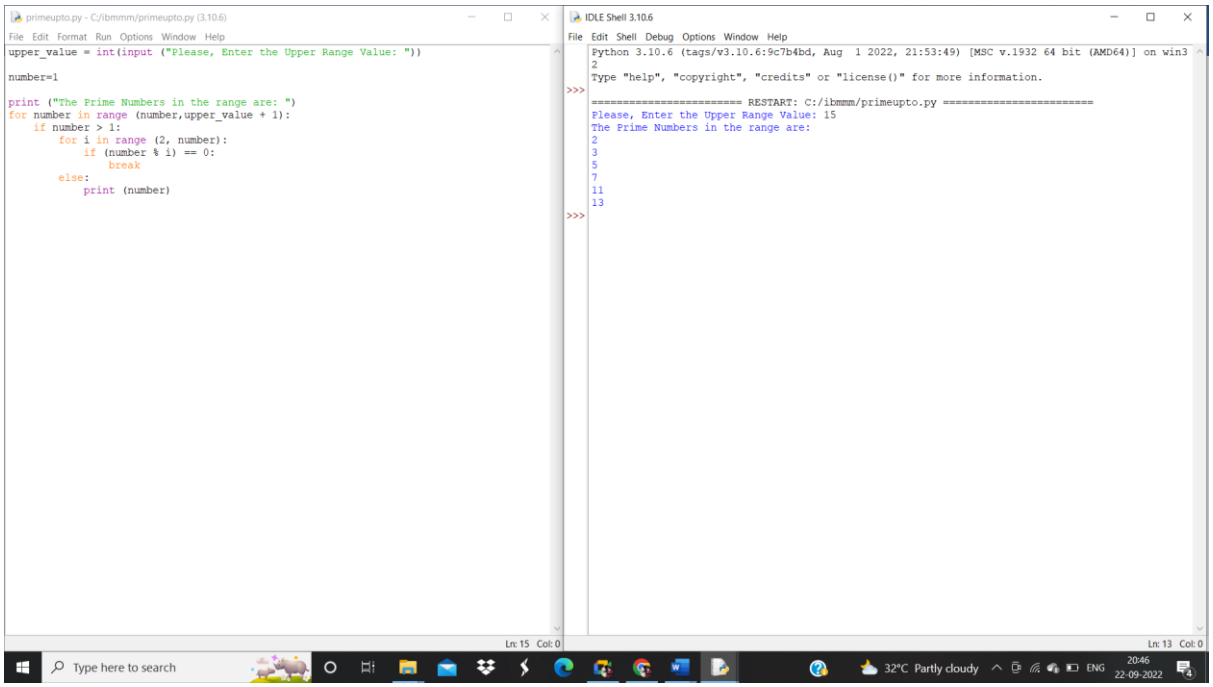
Solution:

```
upper_value = int(input ("Please, Enter the Upper Range Value: "))


number=1


print ("The Prime Numbers in the range are: ")
for number in range (number,upper_value + 1):
   if number > 1:
      for i in range (2, number):
         if (number % i) == 0:
            break
      else:
         print (number)
```

output:



Question-4:

Write a python program to generate Fibonacci series

Solution:

```
n_terms = int(input ("How many terms the user wants to print? "))

n_1 = 0
n_2 = 1
count = 0

if n_terms <= 0:
   print ("Please enter a positive integer, the given number is not valid")
elif n_terms == 1:
   print ("The Fibonacci sequence of the numbers up to", n_terms, ": ")
   print(n_1)
else:
   print ("The fibonacci sequence of the numbers is:")
   while count < n_terms:
      print(n_1)
      nth = n_1 + n_2
      n_1 = n_2
      n_2 = nth
      count += 1
```