Assignment -2

Python Programming

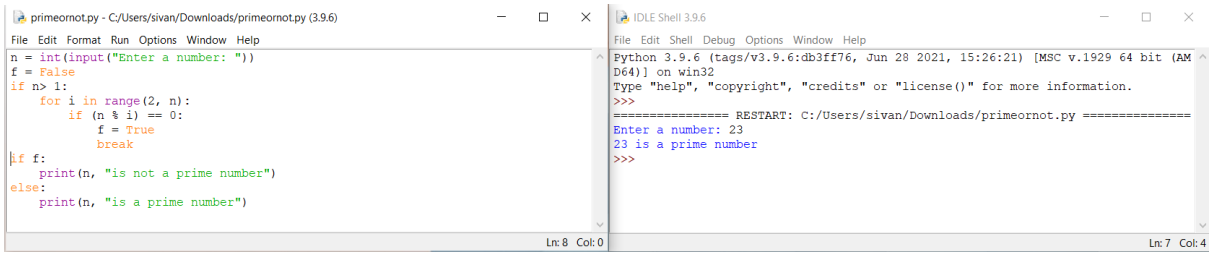
Assignment Date	19 September 2022
Student Name	Sriram M
Student Roll Number	8204191040302
Maximum Marks	2 Marks

Question-1:

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

Solution :

```
n = int(input("Enter a
number: "))
f = False
if n> 1:
   for i in range(2, n):
      if (n % i) == 0:
         f = True
         break
if f:
   print(n, "is not a prime
number")
else:
   print(n, "is a prime
number")
```



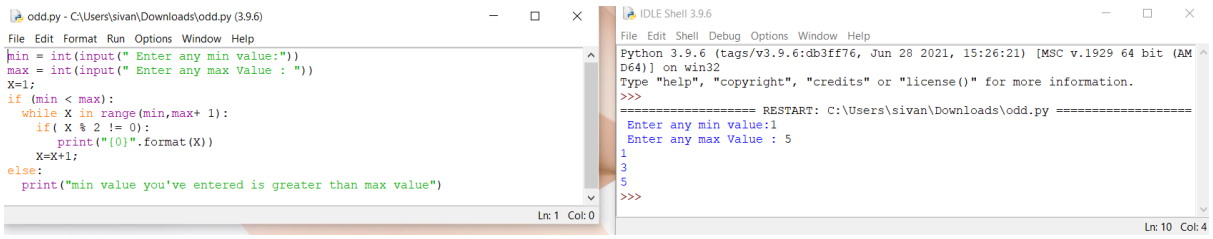
Question-2:

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

Solution :

```
min = int(input(" Enter any min value:"))
max = int(input(" Enter any max Value : "))
X=1;
if (min < max):
```

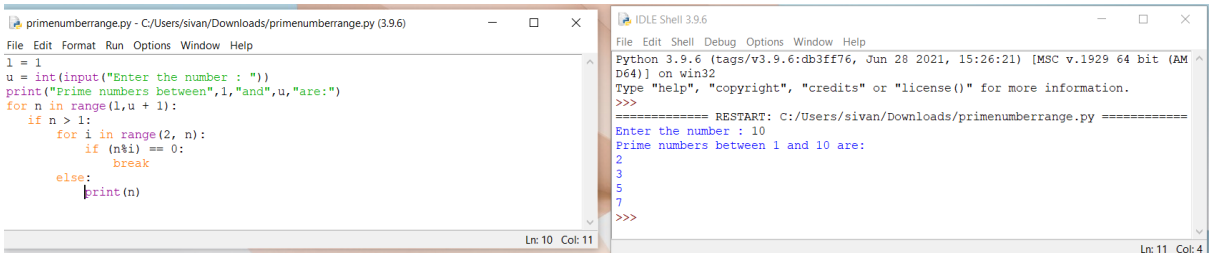
```
  while X in range(min,max+ 1):
   if( X % 2 != 0):
     print("{0}".format(X))
    X=X+1;
else:
 print("min value you've entered is greater than max value")
```



Question-3:

Write a Python program to display prime number series upto given number.

```
 Solution :
 l = 1
 u = int(input("Enter the number : "))
 print("Prime numbers between",1,"and",u,"are:")
 for n in range(l,u + 1):
   if n > 1:
      for i in range(2, n):
         if (n%i) == 0:
            break
      else:
         print(n)
```



Question-4:

Write a Python program to generate Fibonacci series.

Solution :

```
nt = int(input("How many terms? "))
n1, n2 = 0, 1
c = 0
if nt <= 0:
   print("enter a +ve integer")
elif nt == 1:
   print("Fibonacci upto",nt,":")
   print(n1)
else:
   print("Fibonacci series:")
   while c < nt:
      print(n1)
      nth = n1 + n2
      n1 = n2
      n2 = nth
      c += 1
```