Assignment -4

Python Programming

Assignment Date	19 September 2022
Student Name	M.Saraswathi
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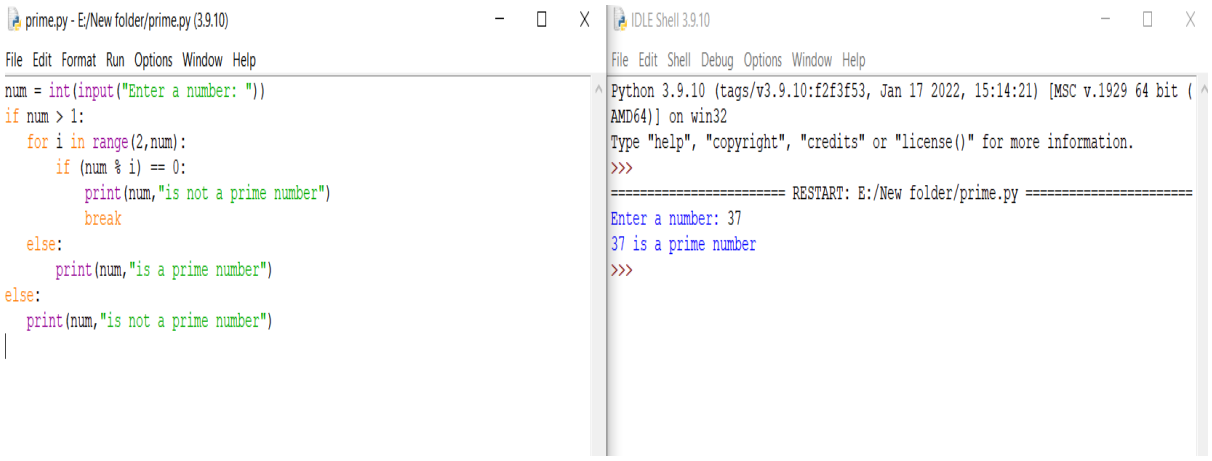
Maximum Marks	2 Marks

Question-1:

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

Solution:

```
num = int(input("Enter a number: "))
if num > 1:
  for i in range(2,num):
     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")
```

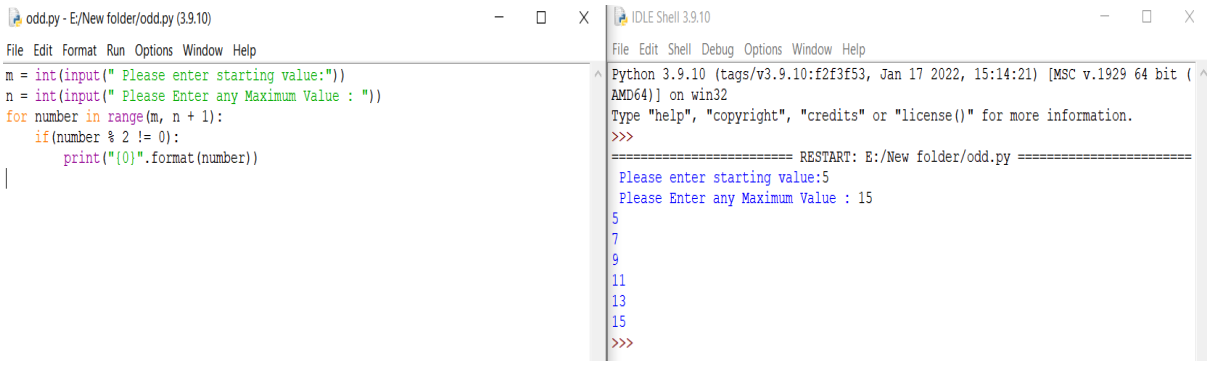


Question-2:

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

Solution:

```
m = int(input(" Please enter starting value:"))
n = int(input(" Please Enter any Maximum Value : "))
for number in range(m, n + 1):
   if(number % 2 != 0):
      print("{0}".format(number))
```

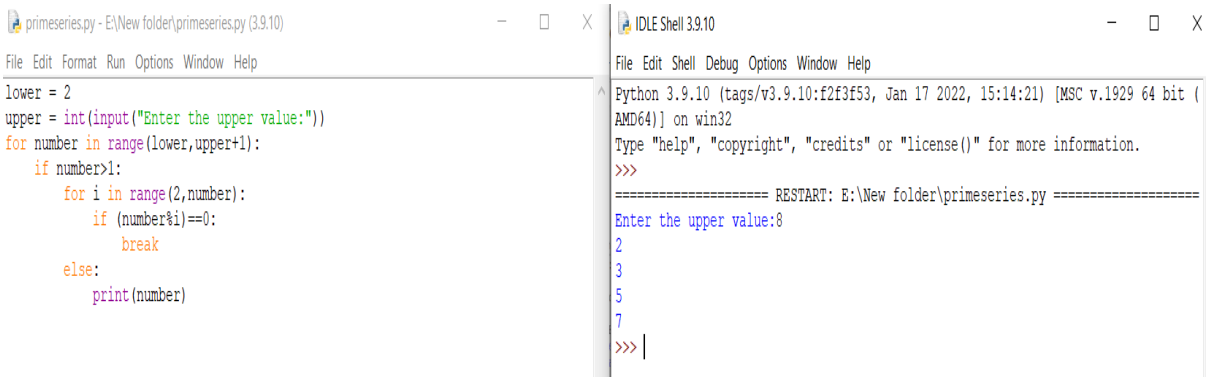


Question-3:

Write a Python program to display prime numbers series upto given number?

Solution:

```
lower = 2
upper = int(input("Enter the upper value:"))
for number in range(lower,upper+1):
   if number>1:
      for i in range(2,number):
         if (number%i)==0:
            break
      else:
         print(number)
```



Question-4:

Write a Python program to generate Fibonacci series?

Solution:

```
nterms = int(input("How many terms? "))
n1, n2 = 0, 1
count = 0
if nterms <= 0:
  print("Please enter a positive integer")
elif nterms == 1:
  print("Fibonacci sequence upto",nterms,":")
  print(n1)
else:
        print("Fibonacci sequence:")
  while count < nterms:
    print(n1)
    nth = n1 + n2
    n1 = n2
    n2 = nth
    count += 1
```