Assignment -4

Python programming

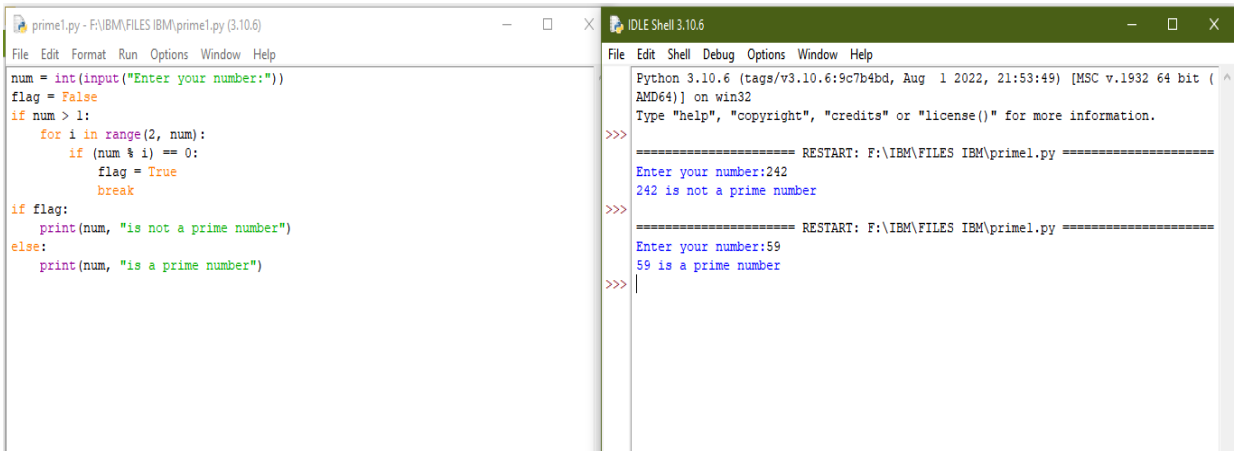
Assignment Date	19 September 2022
Student Name	Dhivya V
Student Roll Number	820419104019
Maximum Marks	2 Marks

Question-1:

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

Solution:

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

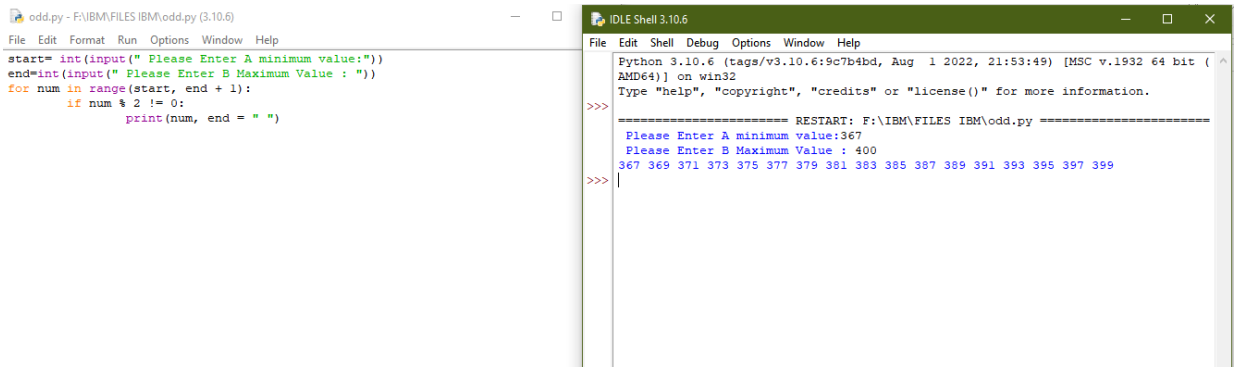


Question-2:

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

Solution:

```
start= int(input(" Please Enter A minimum value:"))
end=int(input(" Please Enter B Maximum Value : "))
for num in range(start, end + 1):
        if num % 2 != 0:
                print(num, end = " ")
```



Question-3:

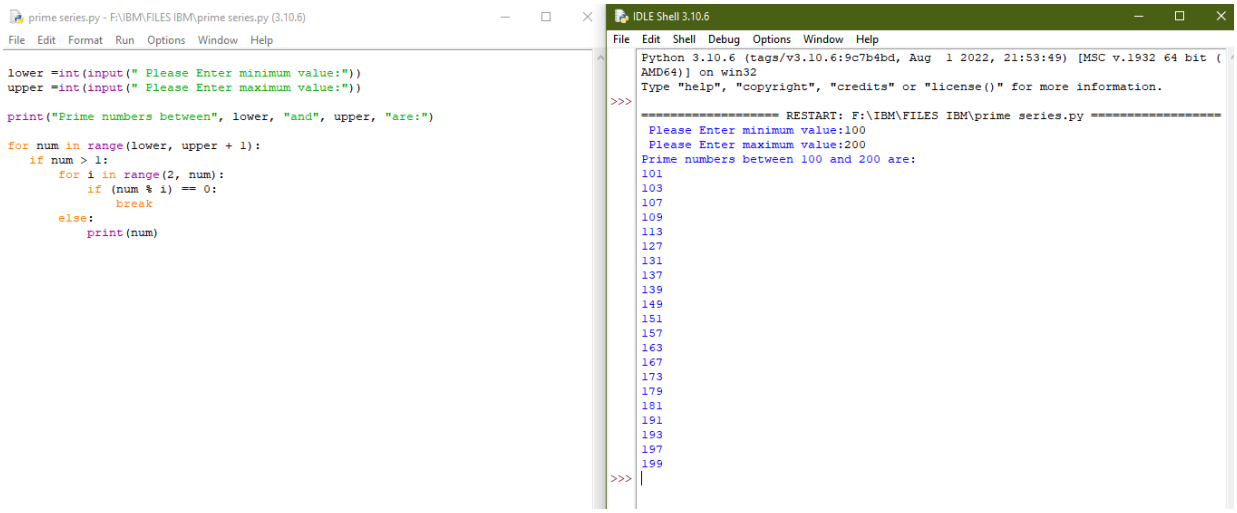
Write a python program to display prime number series up to given number.

Solution:

```
lower =int(input(" Please Enter minimum value:"))
upper =int(input(" Please Enter maximum value:"))

print("Prime numbers between", lower, "and", upper, "are:")

for num in range(lower, upper + 1):
  if num > 1:
     for i in range(2, num):
        if (num % i) == 0:
           break
     else:
        print(num)
```



Question-4:

Write a python program to generate Fibonacci series

Solution:

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