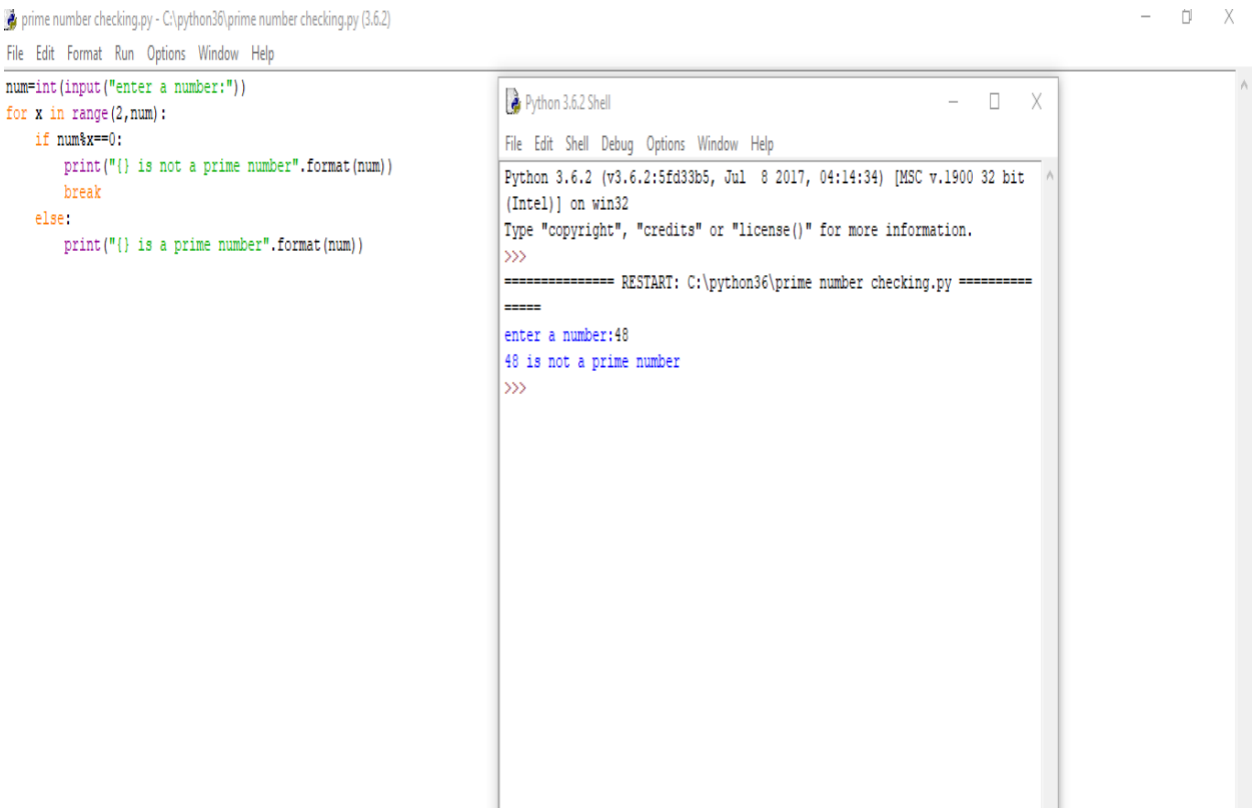
IBM ASSIGNMENT 1:

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

PROGRAM

```
num=int(input("enter a number:"))
for x in range(2,num):
 if num%x==0:
 print("{} is not a prime number".format(num))
 break
 else:
 print("{} is a prime number".format(num))
```

OUTPUT

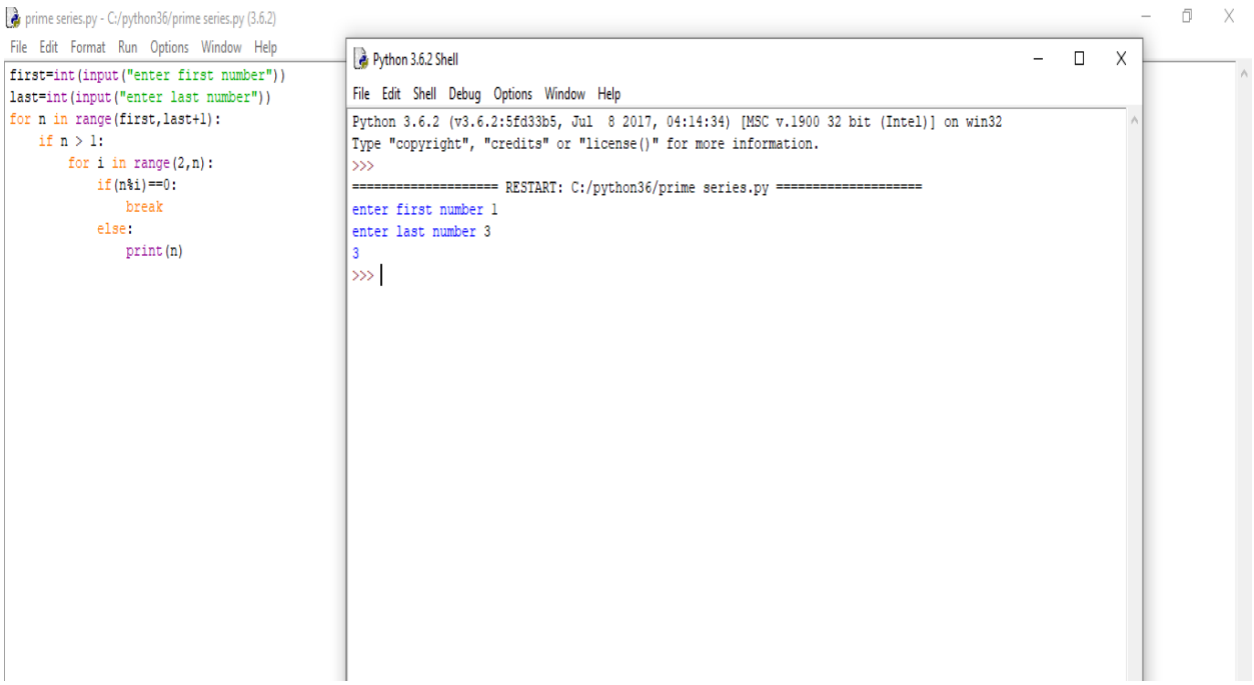


2.Write a python program to display prime number series up to given numbers

PROGRAM

```
first=int(input("enter first number"))
last=int(input("enter last number"))
for n in range(first,last+1):
 if n > 1:
for i in range(2,n):
 if(n%i)==0:
 break
 else:
  print(n)
```

OUTPUT

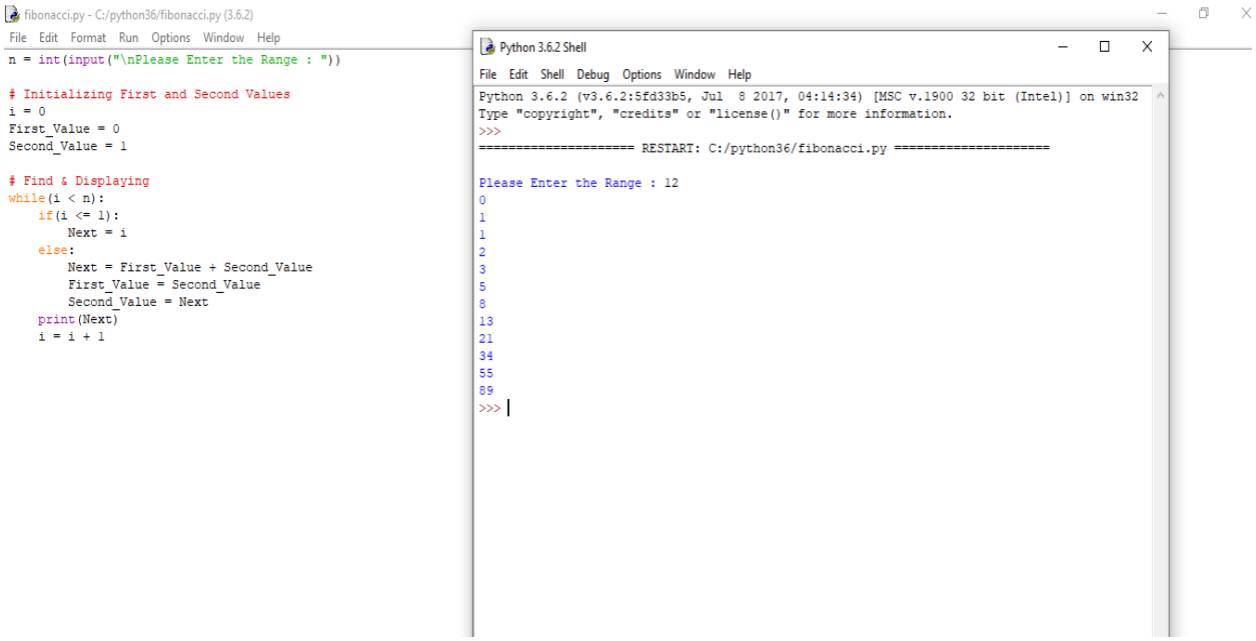


3.Write a python program to generate Fibonacci series

PROGRAM

```
n = int(input("\nPlease Enter the Range : "))
i = 0
First_Value = 0
Second_Value = 1
while(i < n):
if(i <= 1):
Next = i
else:
Next = First_Value + Second_Value
First_Value = Second_Value
 Second_Value = Next
 print(Next)
 i = i + 1
```

OUTPUT



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

PROGRAM

```
maximum = int(input(" Please Enter the Maximum Value : "))

number = 1

while number <= maximum:

if(number % 2 != 0):

print("{0}".format(number))

number = number + 1
```

OUTPUT