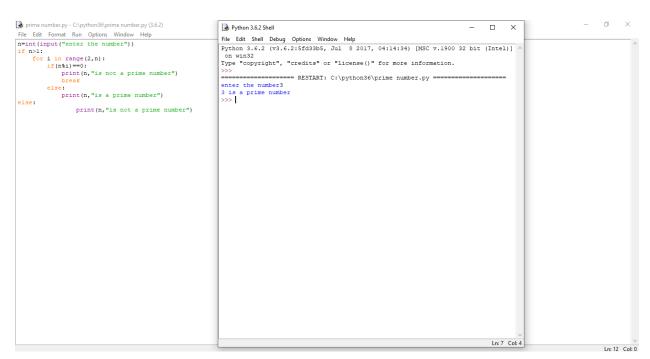
### **IBM ASSIGNMENT 1:**

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

### **PROGRAM**

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

## **OUTPUT**

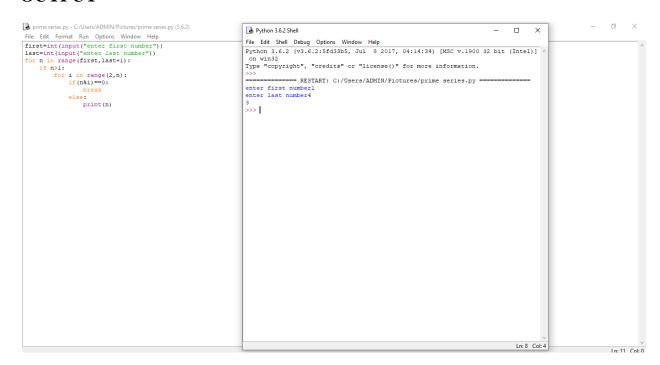


2. Write a python program to display prime number series up to given numbers.

#### **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**

```
nterms=int(input("How many terms?"))
n1,n2=0,1
count=0
if nterms <=0:
  print("enter a positive integers")
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
```

#### **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</pre>
```

# **OUTPUT**

