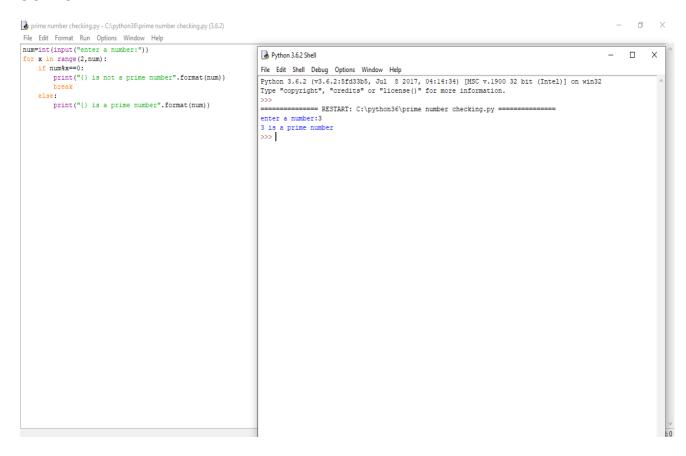
# **IBM ASSIGNMENT 1:**

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))
```



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)
```

3. Write a python program to generate Fibonacci series

### **PROGRAM**

```
\begin{split} 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 \end{split}
```

```
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ni_na_0_1
count=0

if nterms "enter a positive integers")
elif therms "enter a positive integers")
print("Fibonacci sequence upto",nterms,":")
else:
print("Fibonacci sequence upto",nterms,":")
else:
print("Fibonacci sequence upto",nterms,":")
while count c nterms:
print(ni)
nth = ni+n2
n2=nth
count+=1

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```

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

### **PROGRAM**

```
\begin{split} & maximum = int(input(" \ Please \ Enter \ the \ Maximum \ Value : ")) \\ & number = 1 \\ & while \ number <= maximum: \\ & if(number \% \ 2 \ != 0): \\ & print("\{0\}".format(number)) \\ & number = number + 1 \end{split}
```