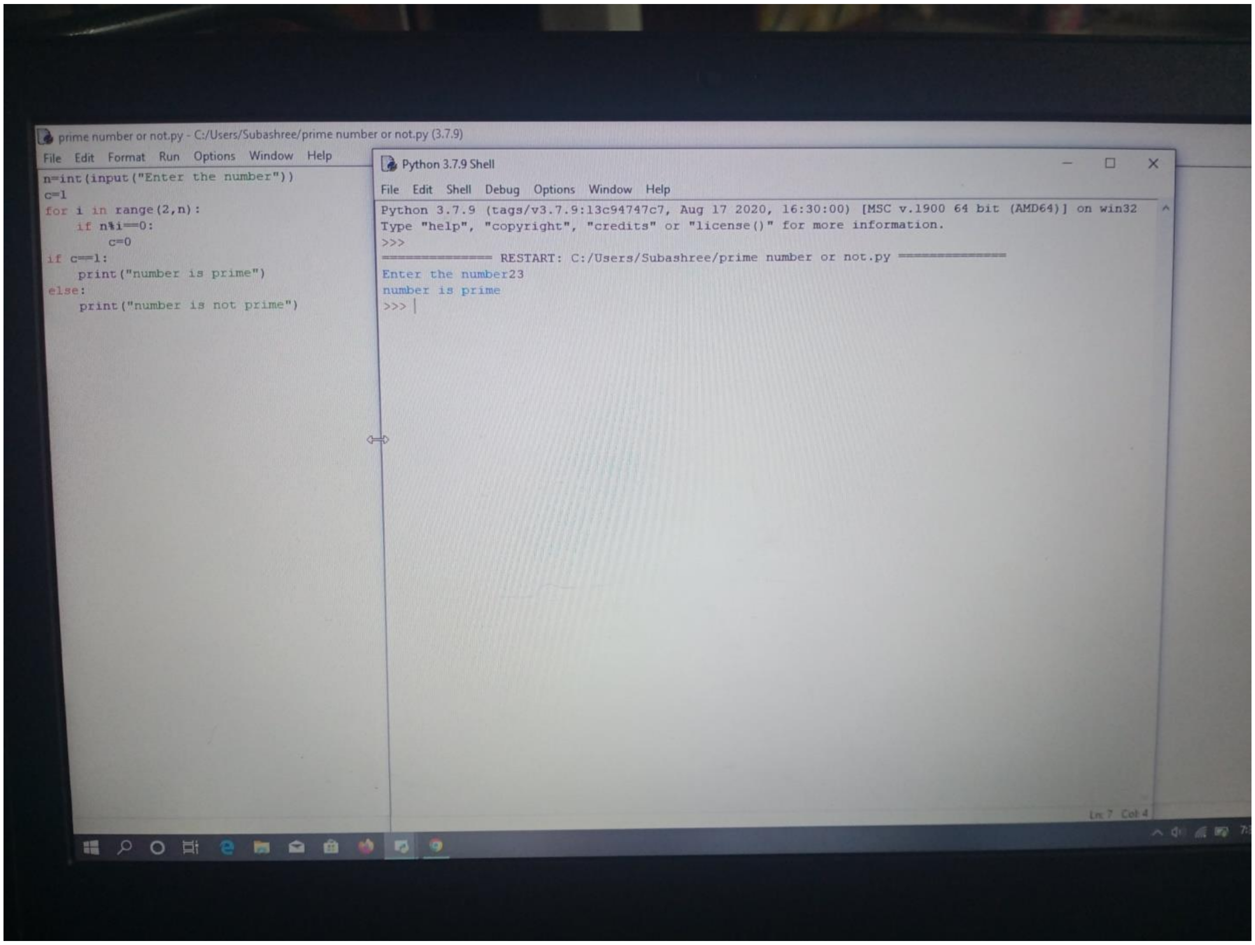
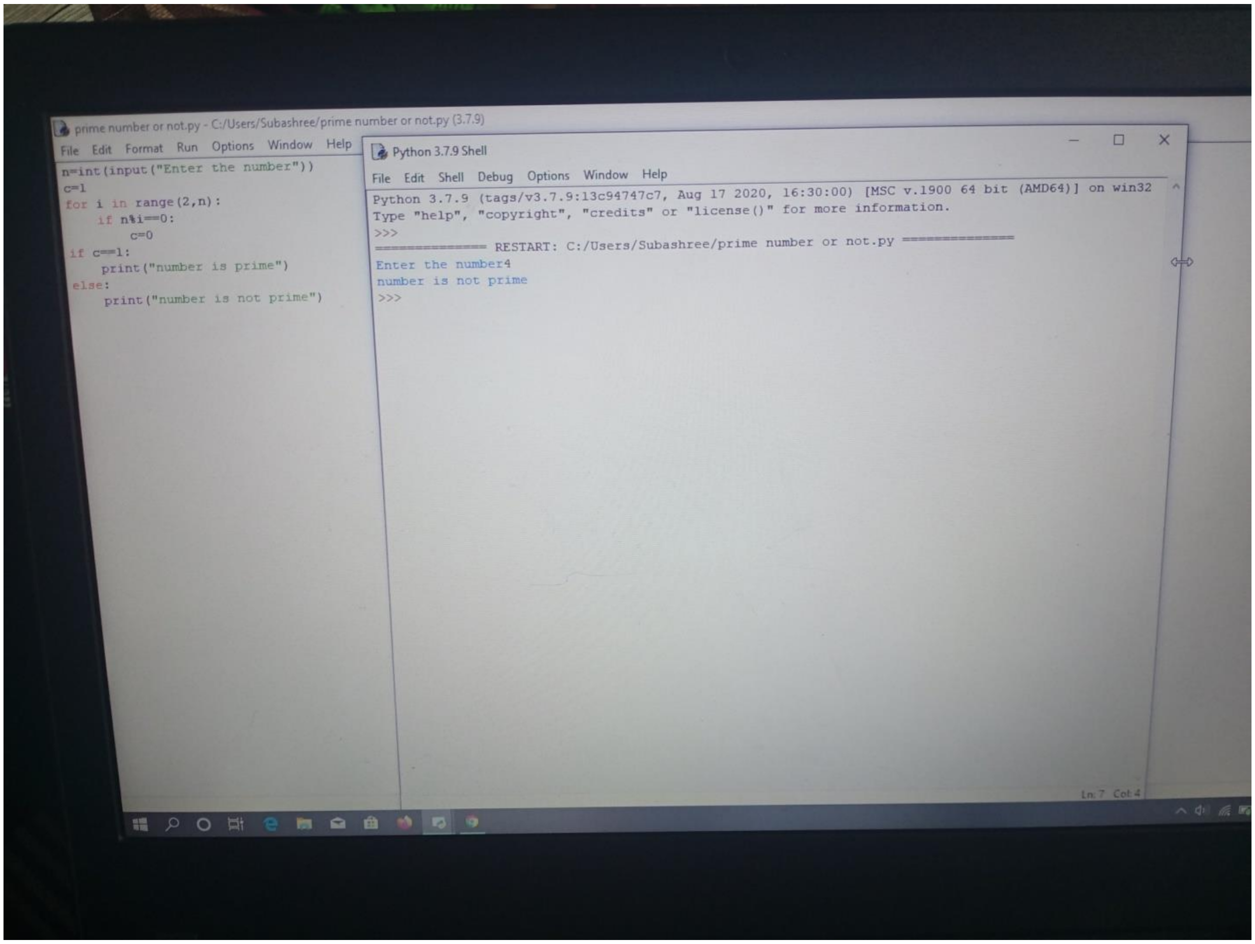
MODULE PYTHON ASSIGNMENT-1

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


prime number or not.py - C:/Users/Subashree/prime number or not.py (3.7.9)
File Edit Format Run Options Window Help
Python 3.7.9 Shell
File Edit Shell Debug Options Window Help
Ln 7 Col 4

```python
n=int(input("Enter the number"))
c=1
for i in range(2,n):
    if n%i==0:
        c=0
if c==1:
    print("number is prime")
else:
    print("number is not prime")
```

```
Python 3.7.9 (tags/v3.7.9:13c94747c7, Aug 17 2020, 16:30:00) [MSC v.1900 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
============== RESTART: C:/Users/Subashree/prime number or not.py ==============
Enter the number23
number is prime
>>> 
```



prime number or not.py - C:/Users/Subashree/prime number or not.py (3.7.9)
File Edit Format Run Options Window Help
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Ln: 7 Col: 4

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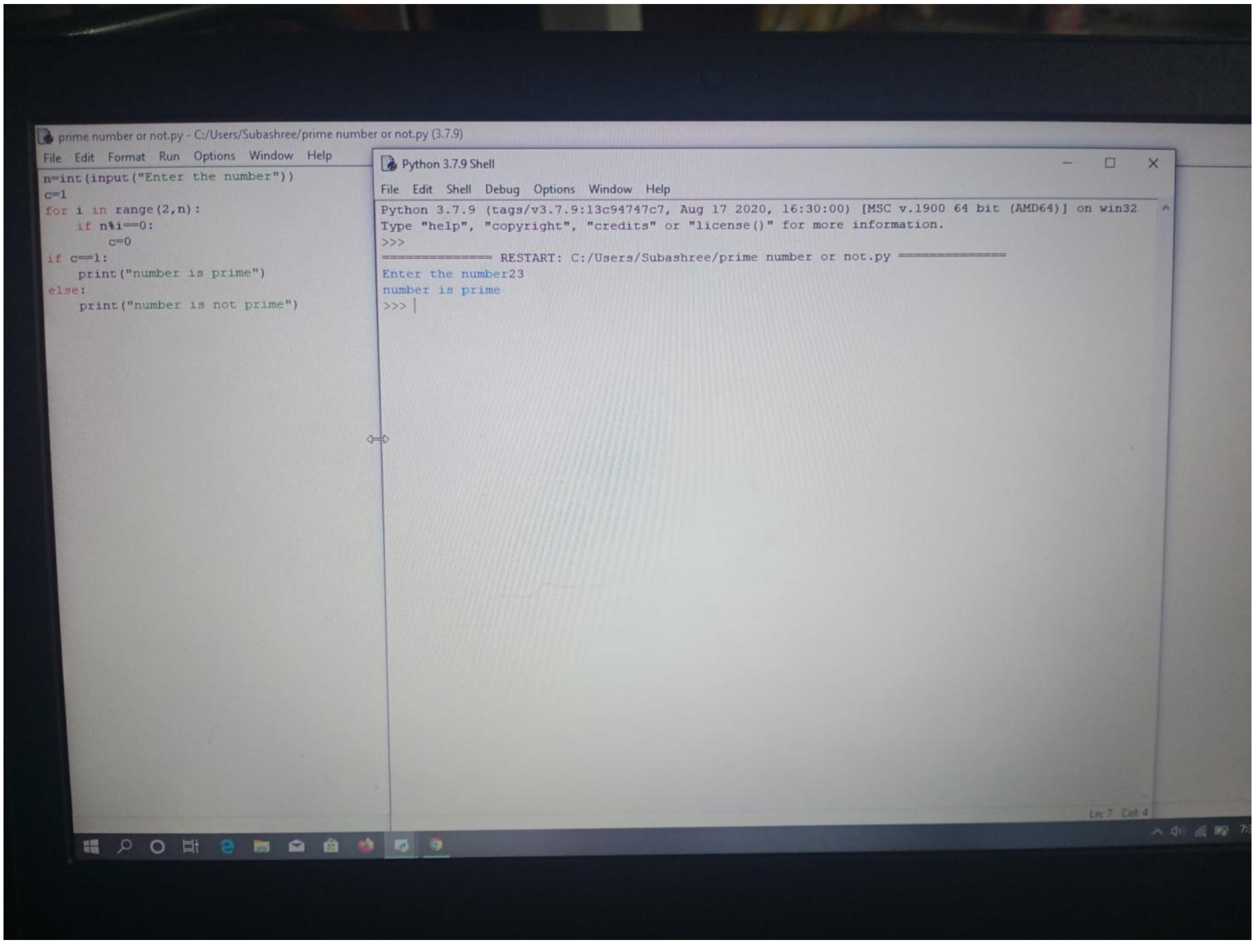
>>>
=============== RESTART: C:/Users/Subashree/prime number or not.py ===============
Enter the number4
number is not prime
>>>
```


prime number or not.py - C:/Users/Subashree/prime number or not.py (3.7.9)
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Ln: 7 Col: 4

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        c=0
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Python 3.7.9 (tags/v3.7.9:13c94747c7, Aug 17 2020, 16:30:00) [MSC v.1900 64 bit (AMD64)] on win32
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>>>
============== RESTART: C:/Users/Subashree/prime number or not.py ==============
Enter the number23
number is prime
>>> 
```
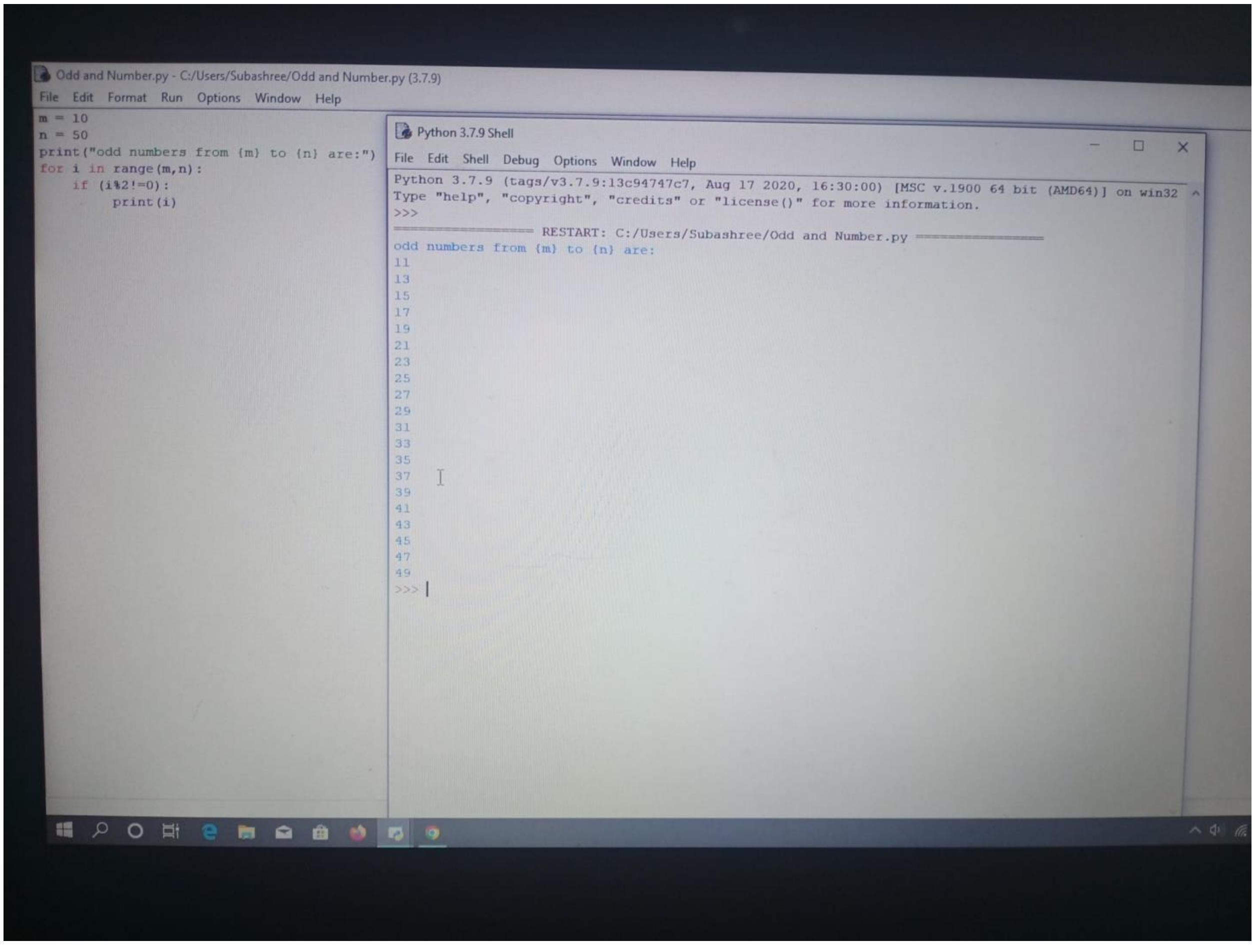

2.Write a program to generate a odd numbers from m to n using while loop.



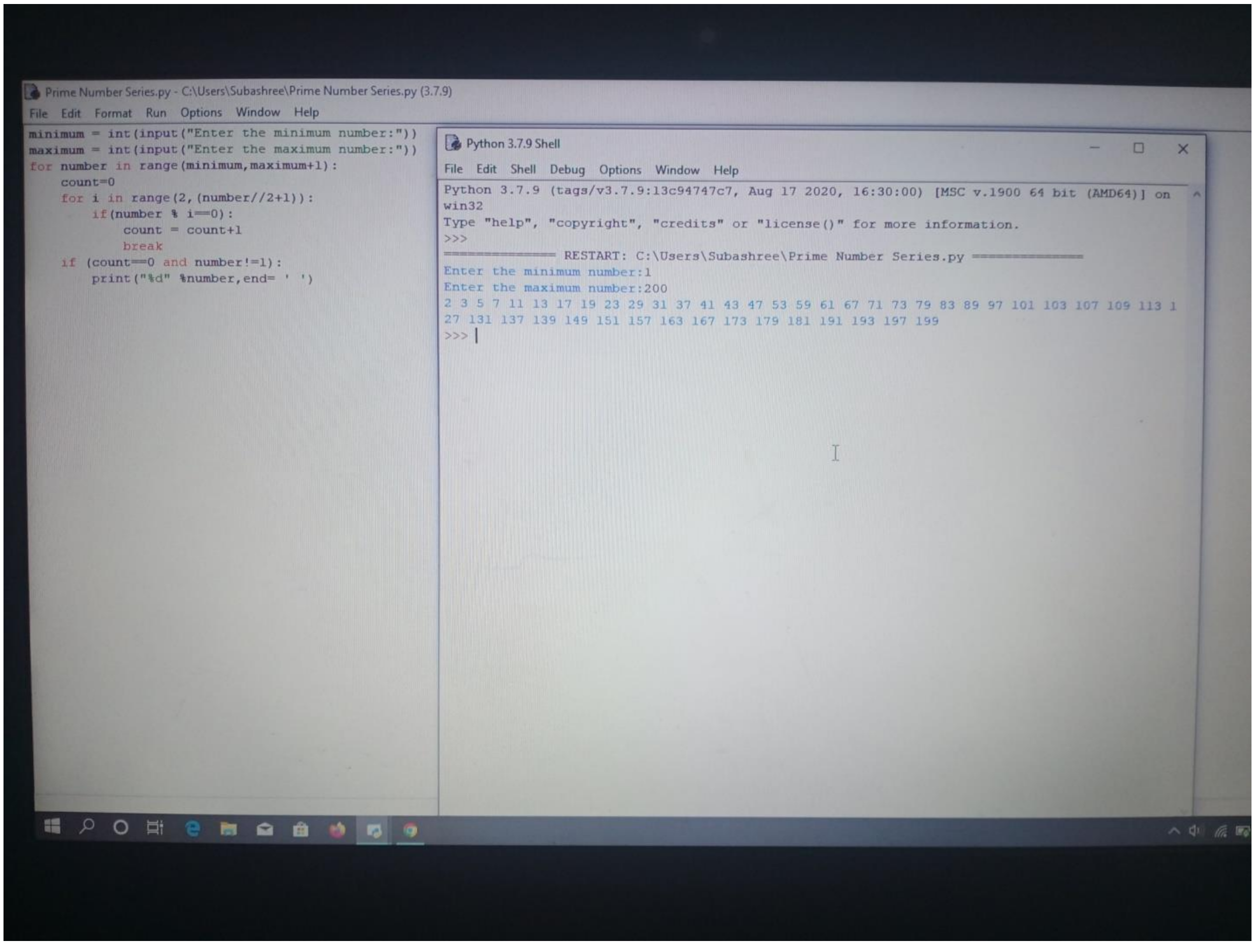
Odd and Number.py - C:/Users/Subashree/Odd and Number.py (3.7.9)
File Edit Format Run Options Window Help

```
m = 10
n = 50
print("odd numbers from {m} to {n} are:")
for i in range(m,n):
    if (i%2!=0):
        print(i)
```

Python 3.7.9 Shell
File Edit Shell Debug Options Window Help

```
Python 3.7.9 (tags/v3.7.9:13c94747c7, Aug 17 2020, 16:30:00) [MSC v.1900 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
================ RESTART: C:/Users/Subashree/Odd and Number.py ================
odd numbers from {m} to {n} are:
11
13
15
17
19
21
23
25
27
29
31
33
35
37
39
41
43
45
47
49
>>> 
```

3.Write a Python program to display prime number series up to given number.



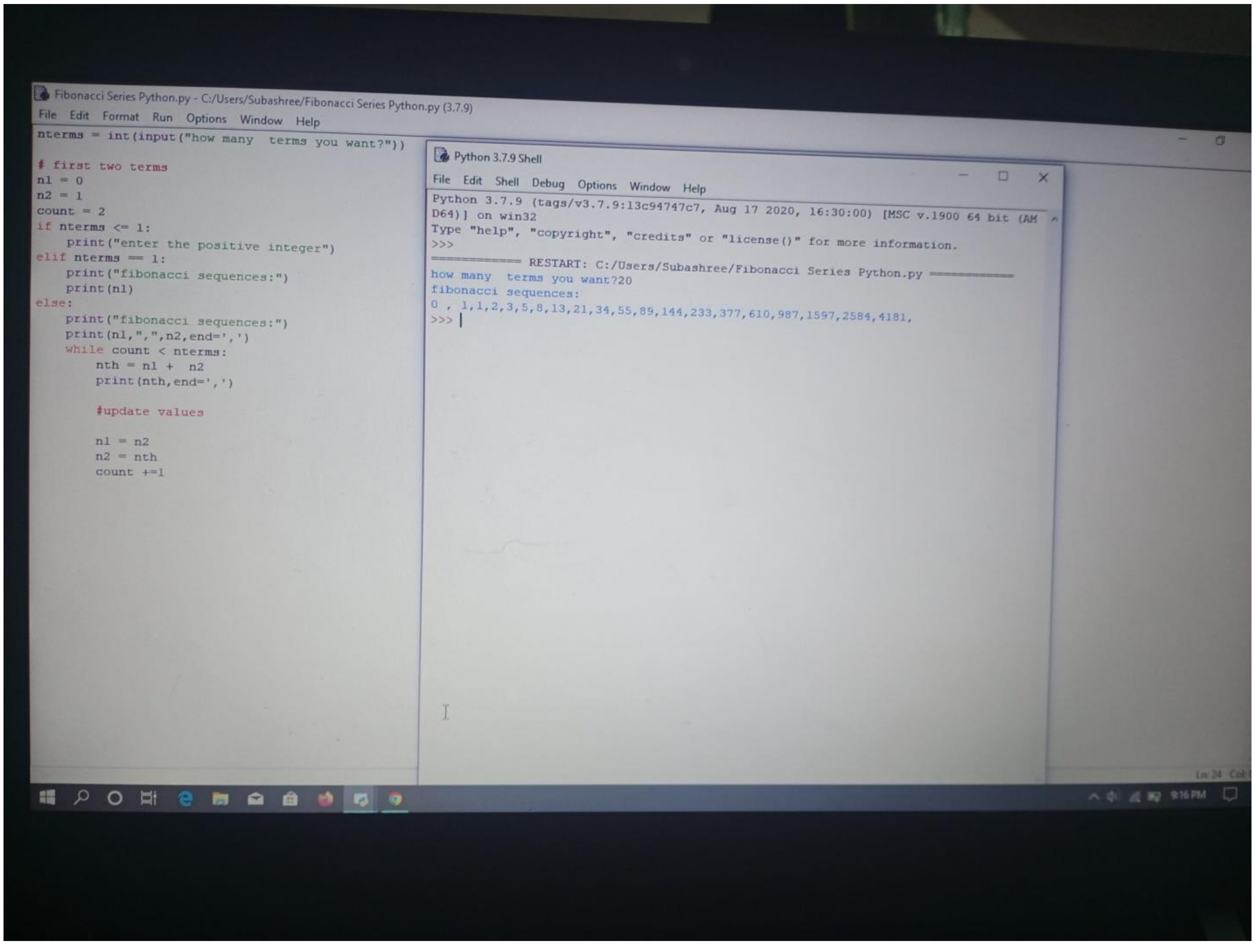
Prime Number Series.py - C:\Users\Subashree\Prime Number Series.py (3.7.9)
File Edit Format Run Options Window Help

```python
minimum = int(input("Enter the minimum number:"))
maximum = int(input("Enter the maximum number:"))
for number in range(minimum,maximum+1):
    count=0
    for i in range(2,(number//2+1)):
        if(number % i==0):
            count = count+1
            break
    if (count==0 and number!=1):
        print("%d" %number,end= ' ')
```

Python 3.7.9 Shell
File Edit Shell Debug Options Window Help

```
Python 3.7.9 (tags/v3.7.9:13c94747c7, Aug 17 2020, 16:30:00) [MSC v.1900 64 bit (AMD64)] on
win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
============== RESTART: C:\Users\Subashree\Prime Number Series.py ==============
Enter the minimum number:1
Enter the maximum number:200
2 3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 67 71 73 79 83 89 97 101 103 107 109 113 1
27 131 137 139 149 151 157 163 167 173 179 181 191 193 197 199
>>> 
```

4.Write a Python program to generate Fibonacci series.


Fibonacci Series Python.py - C:/Users/Subashree/Fibonacci Series Python.py (3.7.9)
File Edit Format Run Options Window Help

```
nterms = int(input("how many  terms you want?"))

# first two terms
n1 = 0
n2 = 1
count = 2
if nterms <= 1:
    print("enter the positive integer")
elif nterms == 1:
    print("fibonacci sequences:")
    print(n1)
else:
    print("fibonacci sequences:")
    print(n1,",",n2,end=',')
    while count < nterms:
        nth = n1 +  n2
        print(nth,end=',')

        #update values

        n1 = n2
        n2 = nth
        count +=1
```

Python 3.7.9 Shell
File Edit Shell Debug Options Window Help

```
Python 3.7.9 (tags/v3.7.9:13c94747c7, Aug 17 2020, 16:30:00) [MSC v.1900 64 bit (AM
D64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
============ RESTART: C:/Users/Subashree/Fibonacci Series Python.py ============
how many  terms you want?20
fibonacci sequences:
0 , 1,1,2,3,5,8,13,21,34,55,89,144,233,377,610,987,1597,2584,4181,
>>> 
```