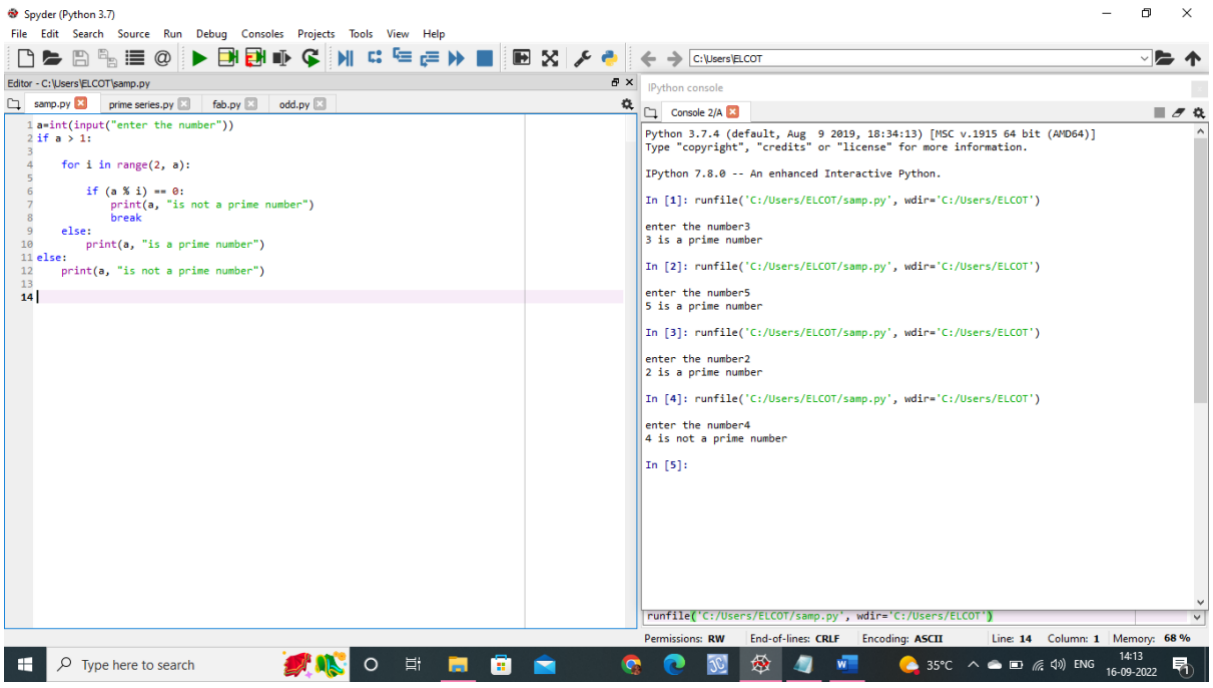
1.Program:

```
a=int(input("enter the number"))
if a > 1:

    for i in range(2, a):


        if (a % i) == 0:
            print(a, "is not a prime number")
            break
    else:
        print(a, "is a prime number")
else:
    print(a, "is not a prime number")
```

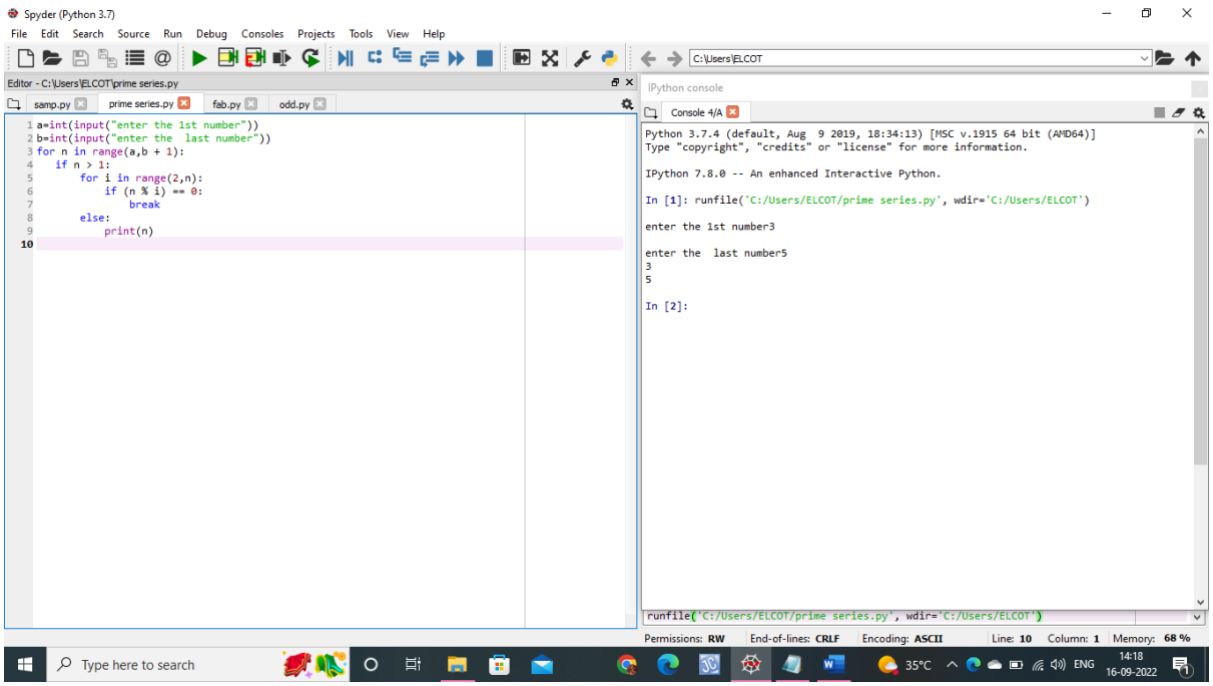


2. Program:

```
a=int(input("enter the 1st number"))
b=int(input("enter the  last number"))
for n in range(a,b + 1):
   if n > 1:
```

```
    for i in range(2,n):
        if (n % i) == 0:
            break
    else:
        print(n)
```

Output:

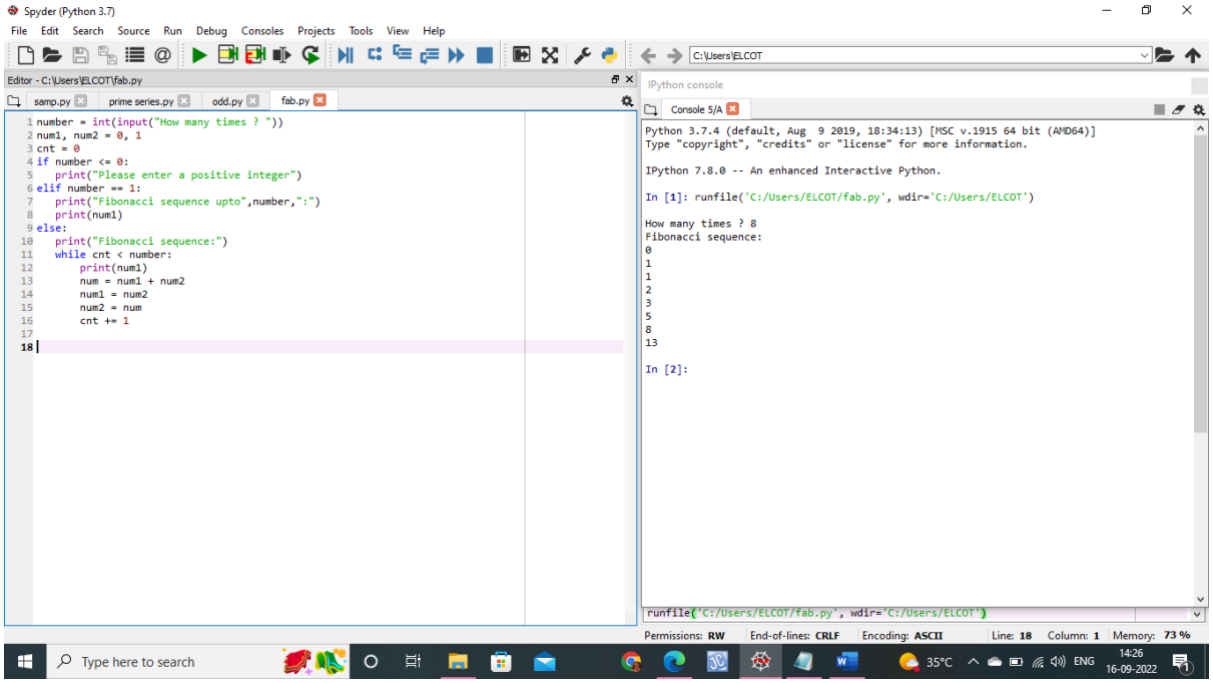


3. Program:

```
number = int(input("How many times ? "))
num1, num2 = 0, 1
cnt = 0
if number <= 0:
   print("Please enter a positive integer")
elif number == 1:
   print("Fibonacci sequence upto",number,":")
   print(num1)
else:
   print("Fibonacci sequence:")
   while cnt < number:
```

```
    print(num1)
    num = num1 + num2
    num1 = num2
    num2 = num
    cnt += 1
```

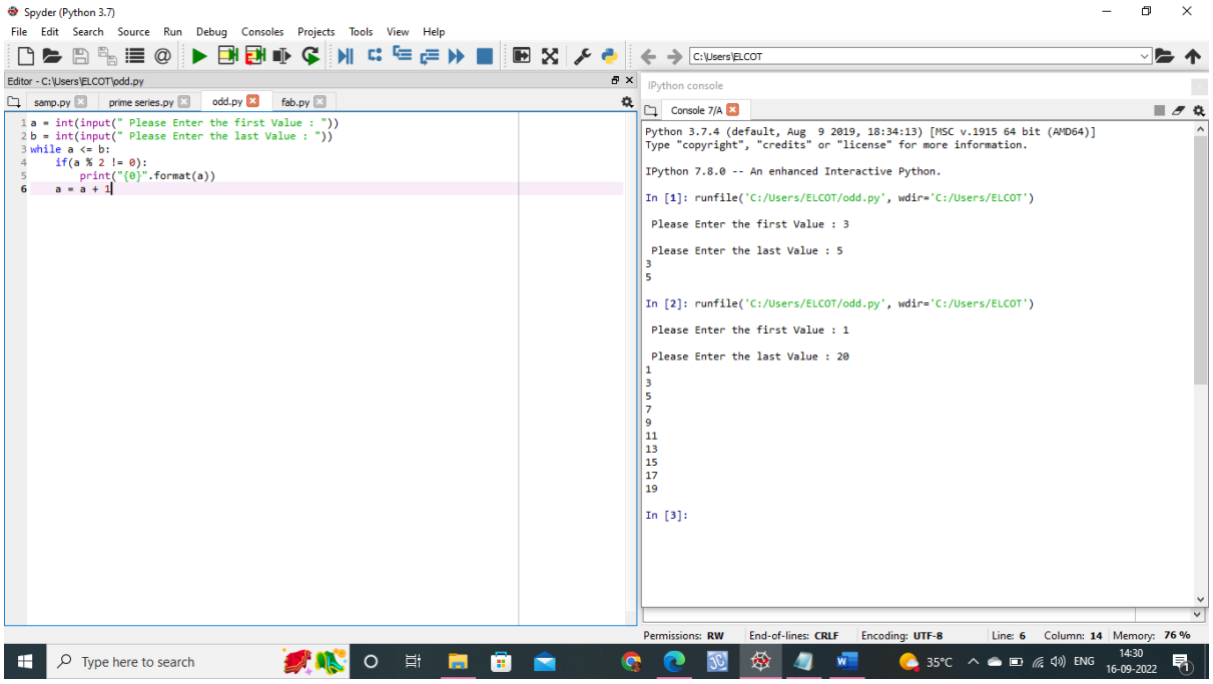
Output:



4.Program:

```
a = int(input(" Please Enter the first Value : "))
b = int(input(" Please Enter the last Value : "))
while a <= b:
    if(a % 2 != 0):
        print("{0}".format(a))
    a = a + 1
```

Output:


Spyder (Python 3.7)
File Edit Search Source Run Debug Consoles Projects Tools View Help
Editor - C:\Users\ELCOT\odd.py
samp.py
prime series.py
odd.py
fab.py
a = int(input(" Please Enter the first Value : "))
b = int(input(" Please Enter the last Value : "))
while a <= b:
if(a % 2 != 0):
print("{0}".format(a))
a = a + 1
IPython console
Console 7/A
Python 3.7.4 (default, Aug 9 2019, 18:34:13) [MSC v.1915 64 bit (AMD64)]
Type "copyright", "credits" or "license" for more information.
IPython 7.8.0 -- An enhanced Interactive Python.
In [1]: runfile('C:/Users/ELCOT/odd.py', wdir='C:/Users/ELCOT')
Please Enter the first Value : 3
Please Enter the last Value : 5
3
5
In [2]: runfile('C:/Users/ELCOT/odd.py', wdir='C:/Users/ELCOT')
Please Enter the first Value : 1
Please Enter the last Value : 20
1
3
5
7
9
11
13
15
17
19
In [3]:
Permissions: RW
End-of-lines: CRLF
Encoding: UTF-8
Line: 6
Column: 14
Memory: 76 %
Type here to search
35°C
ENG
14:30
16-09-2022