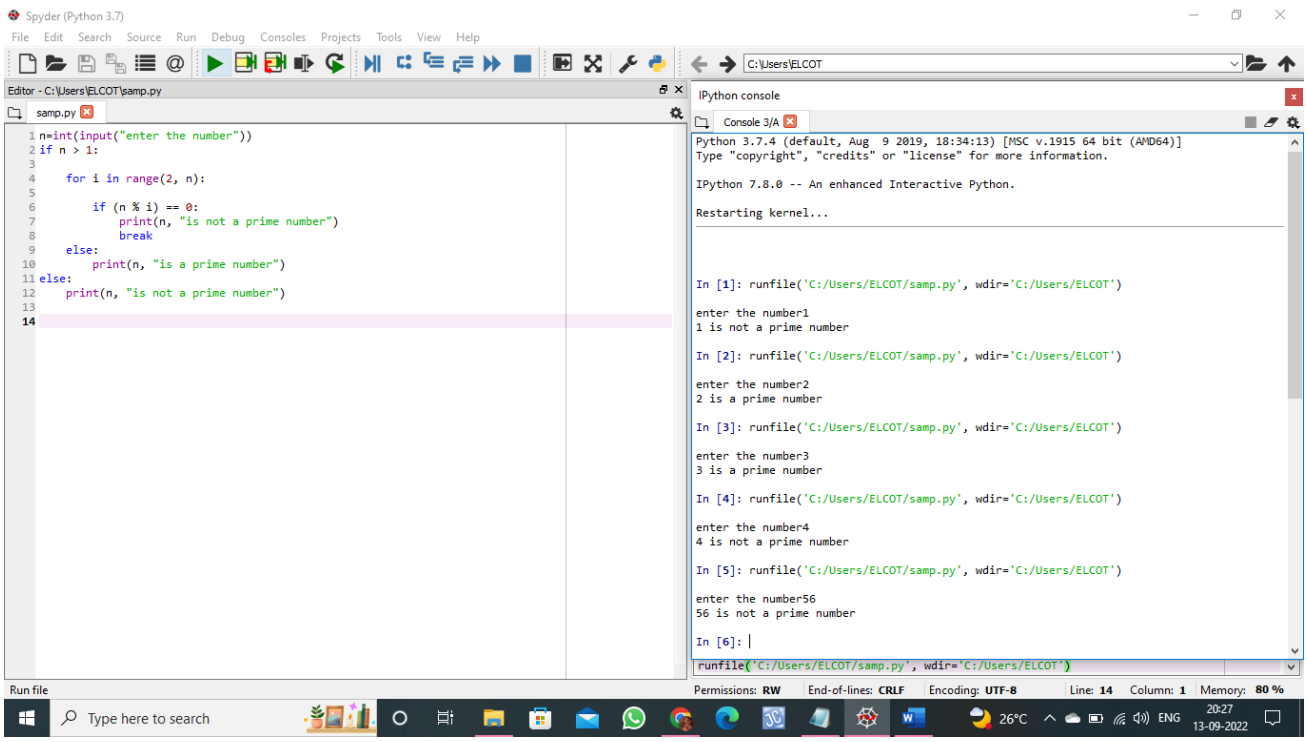
1. **Write a python program to test a given number is prime or not**

Program:

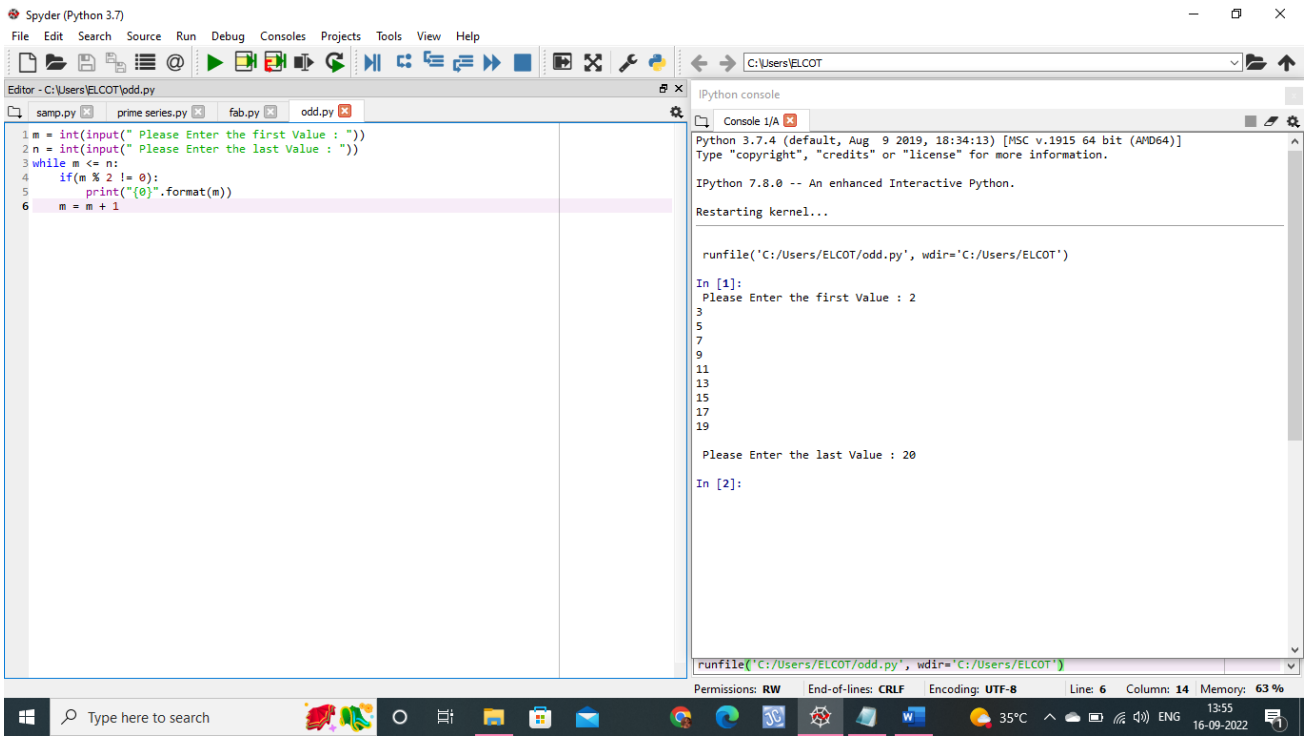
```
n=int(input("enter the number"))
if n > 1:
  for i in range(2, n):
    if (n % i) == 0:
        print(n, "is not a prime number")
        break
   else:
      print(n, "is a prime number")
  else:
    print(n, "is not a prime number")
```



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

Program:

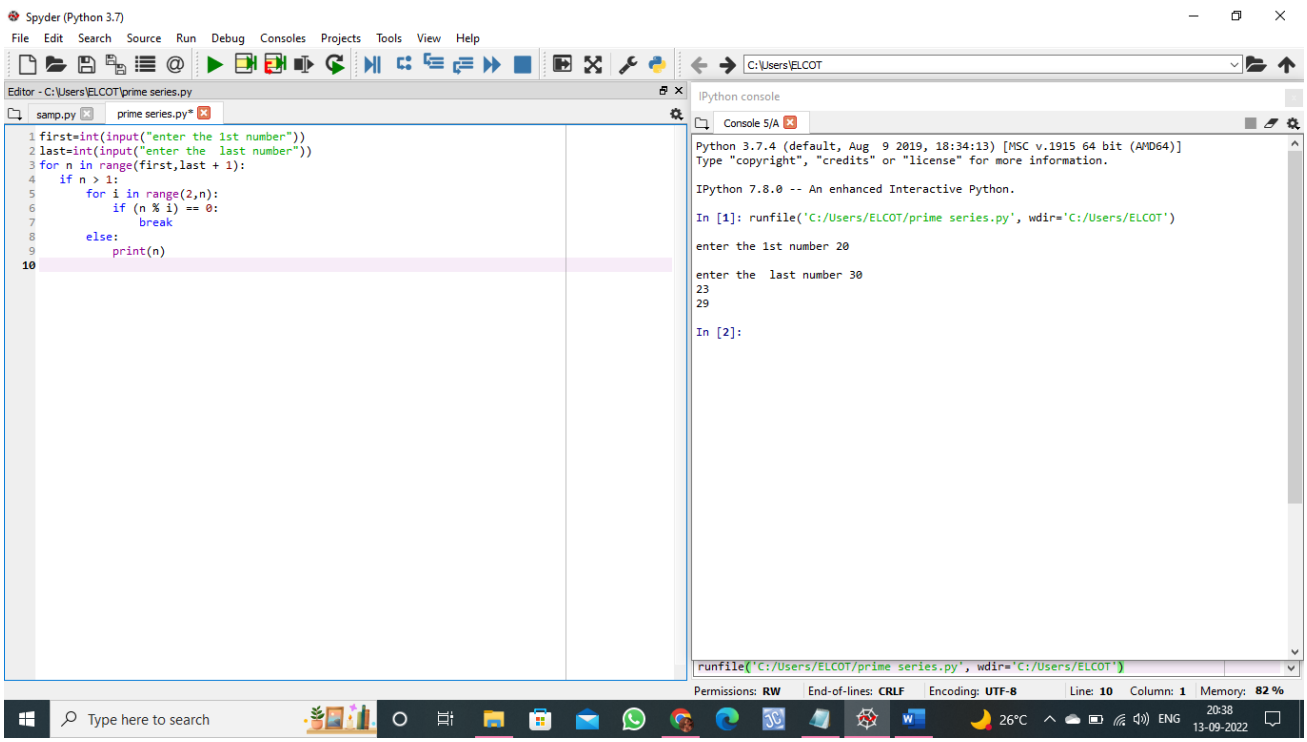
```
m = int(input(" Please Enter the first Value : "))
n = int(input(" Please Enter the last Value : "))
while m <= n:
    if(m % 2 != 0):
        print("{0}".format(m))
    m = m + 1
```



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

Program:

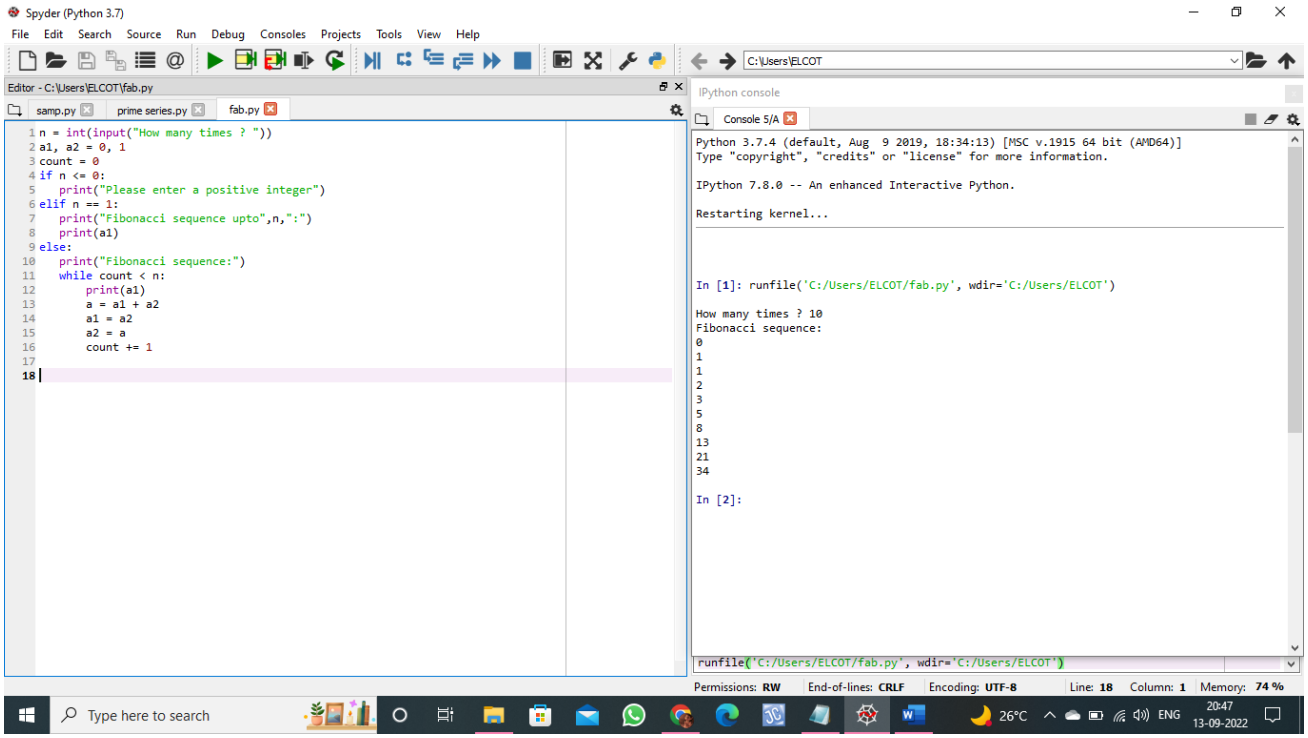
```
first=int(input("enter the 1st number"))
last=int(input("enter the  last number"))
for n in range(first,last + 1):
    if n > 1:
        for i in range(2,n):
            if (n % i) == 0:
                break
        else:
            print(n)
```



4.**Write a python program to generate fibonacci series**

Program:

```
n = int(input("How many times ? "))
a1, a2 = 0, 1
count = 0
if n <= 0:
   print("Please enter a positive integer")
elif n == 1:
   print("Fibonacci sequence upto",n,":")
   print(a1)
else:
   print("Fibonacci sequence:")
while count < n:
       print(a1)
       a = a1 + a2
       a1 = a2
       a2 = a
       count += 1
```


Spyder (Python 3.7)
File Edit Search Source Run Debug Consoles Projects Tools View Help
Editor - C:\Users\ELCOT\fab.py
samp.py
prime series.py
fab.py
n = int(input("How many times ? "))
a1, a2 = 0, 1
count = 0
if n <= 0:
print("Please enter a positive integer")
elif n == 1:
print("Fibonacci sequence upto",n,":")
print(a1)
else:
print("Fibonacci sequence:")
while count < n:
print(a1)
a = a1 + a2
a1 = a2
a2 = a
count += 1
IPython console
Console 5/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.
Restarting kernel...
In [1]: runfile('C:/Users/ELCOT/fab.py', wdir='C:/Users/ELCOT')
How many times ? 10
Fibonacci sequence:
0
1
1
2
3
5
8
13
21
34
In [2]:
runfile('C:/Users/ELCOT/fab.py', wdir='C:/Users/ELCOT')
Permissions: RW
End-of-lines: CRLF
Encoding: UTF-8
Line: 18
Column: 1
Memory: 74 %
Type here to search
26°C
ENG
20:47
13-09-2022