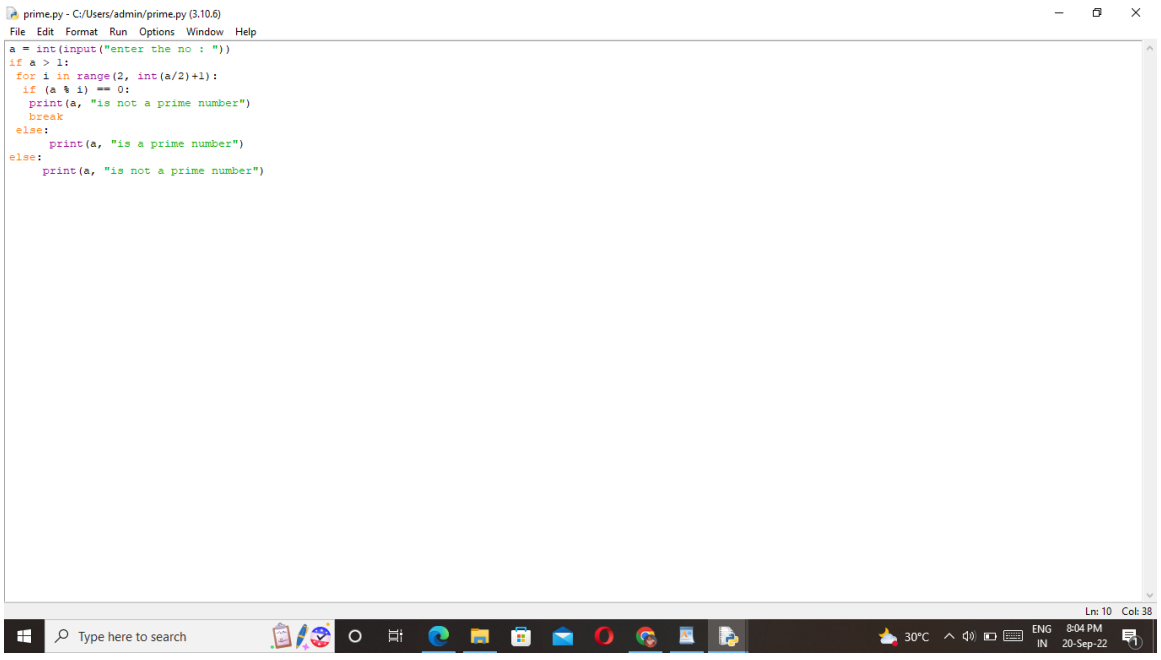
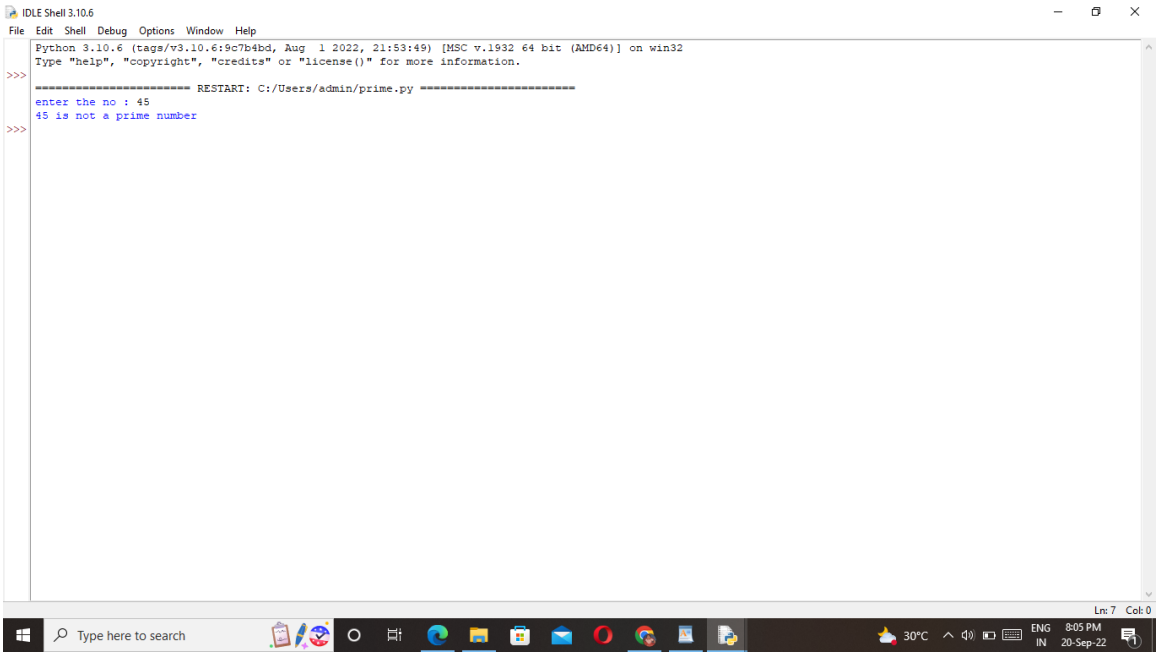
1.Write a python program to test a given number is prime or not.

```
a = int(input("enter the no : "))

if a > 1:

    for i in range(2, int(a/2)+1):

        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")
```

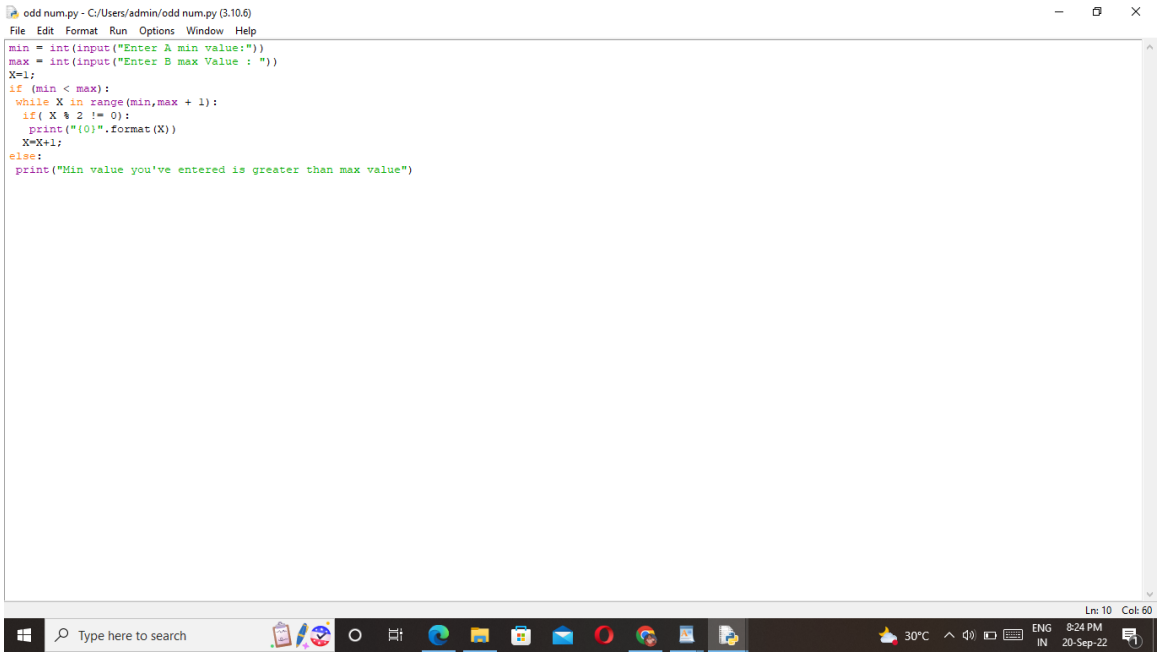


OUTPUT:

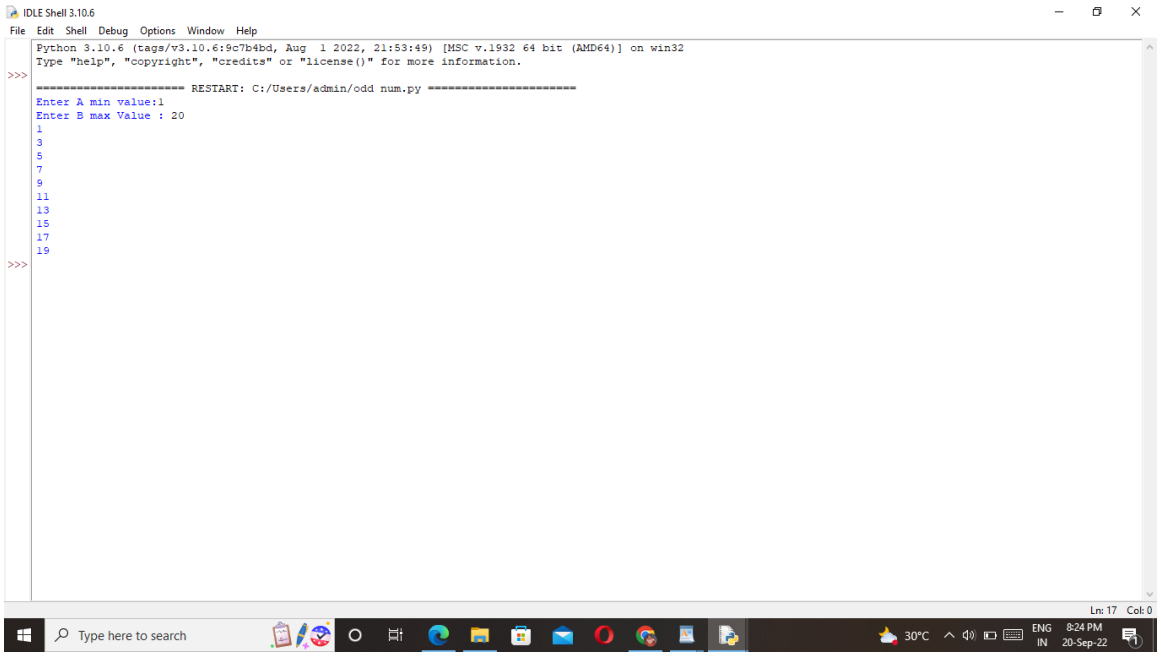


2.Write a program to generate odd numbers from m to n using while loop.

```
min = int(input(" Please Enter A minimum value:"))

max = int(input(" Please Enter B Maximum Value : "))

X=1;

if (min < max):

  while X in range(min,max + 1):

  if( X % 2 != 0):

      print("{0}".format(X))

  X=X+1;

else:

      print("Min value you've entered is greater than max value")
```



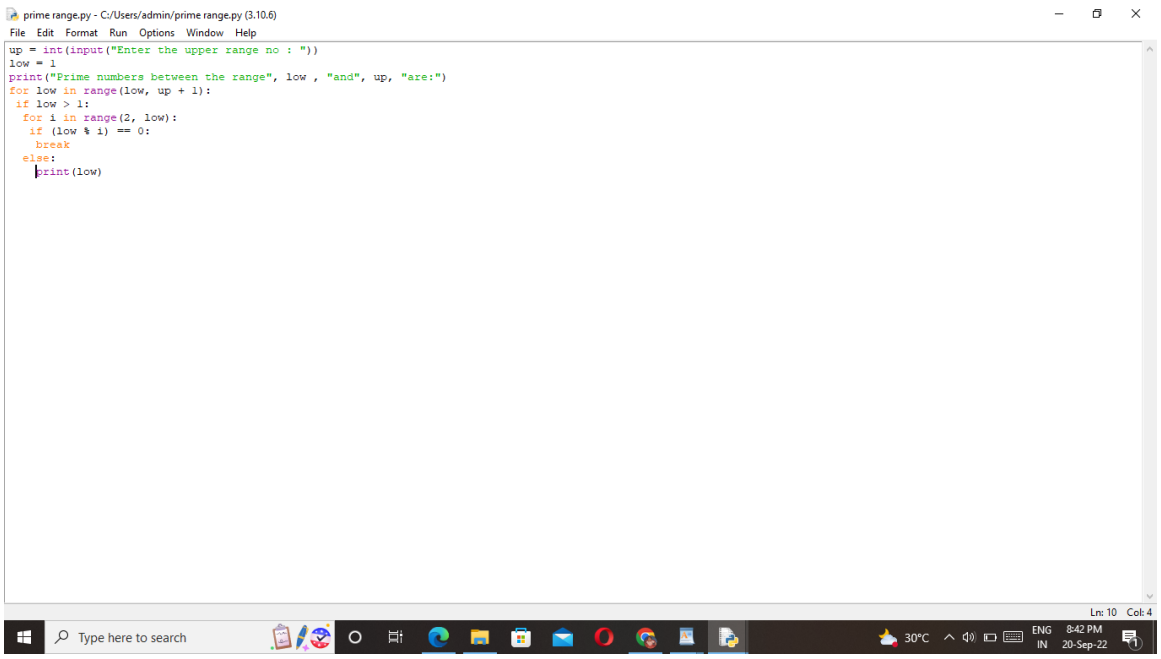
OUTPUT:



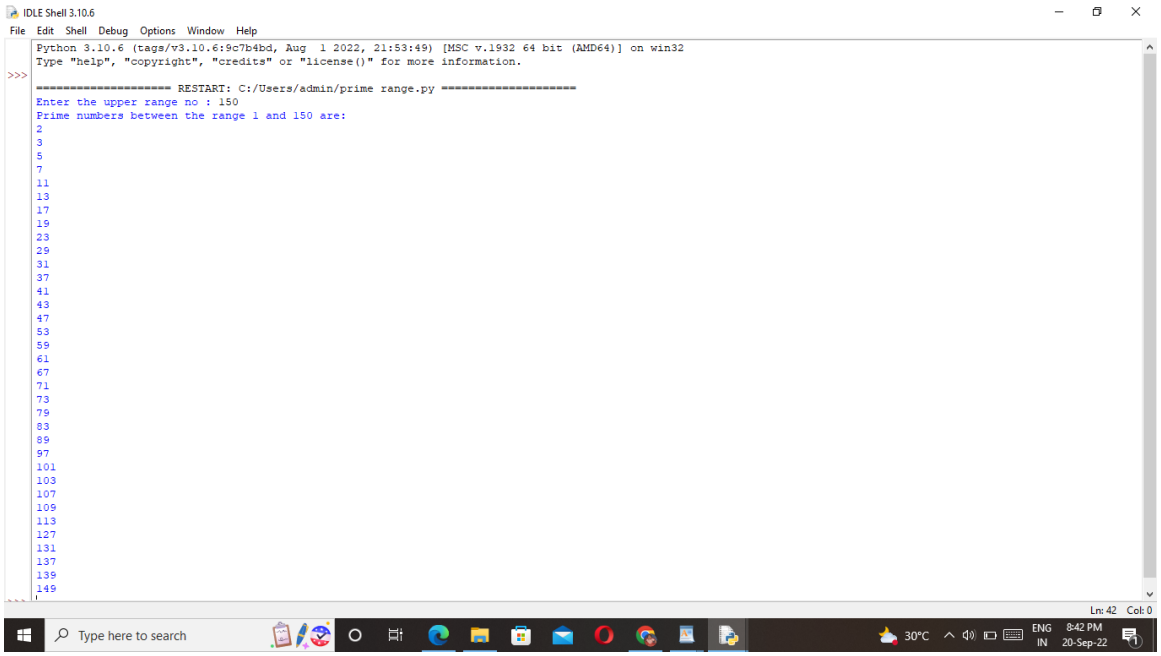
3.Write a python program to display prime number series up to given number.

low = 1

```
up = int(input("Enter the upper range no : "))
print("Prime numbers between the range", low , "and", up, "are:")
    for low in range(low, up + 1):
        if low > 1:
            for i in range(2, low):
                if (low % i) == 0:
  break
  else:
  print(low)
```

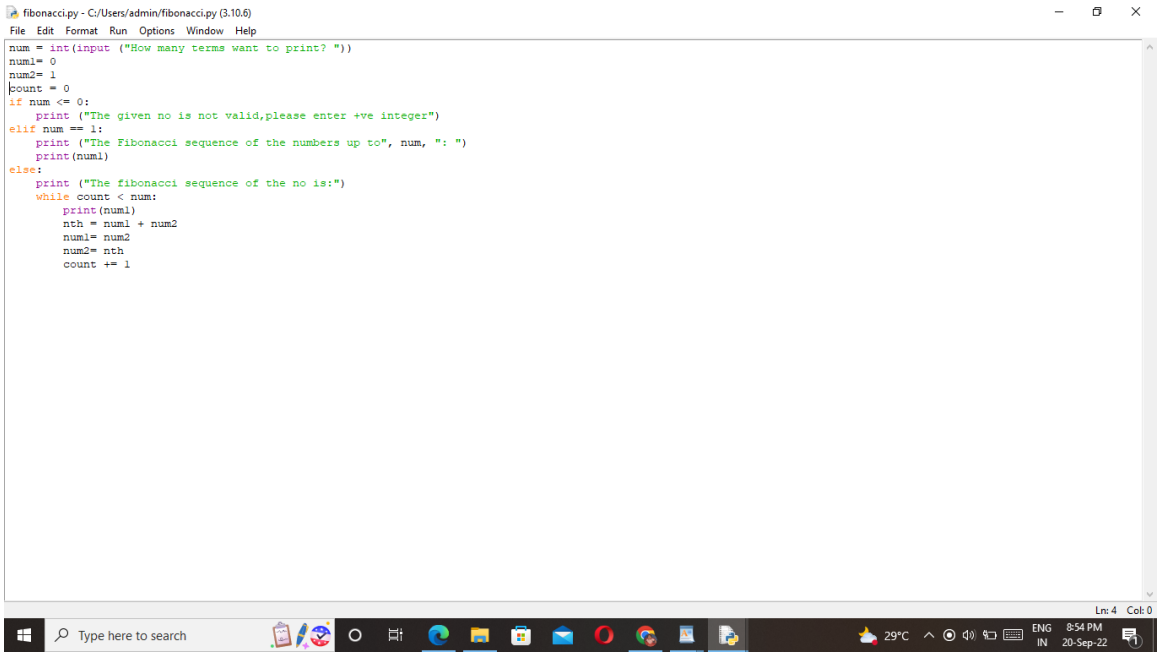


OUTPUT:

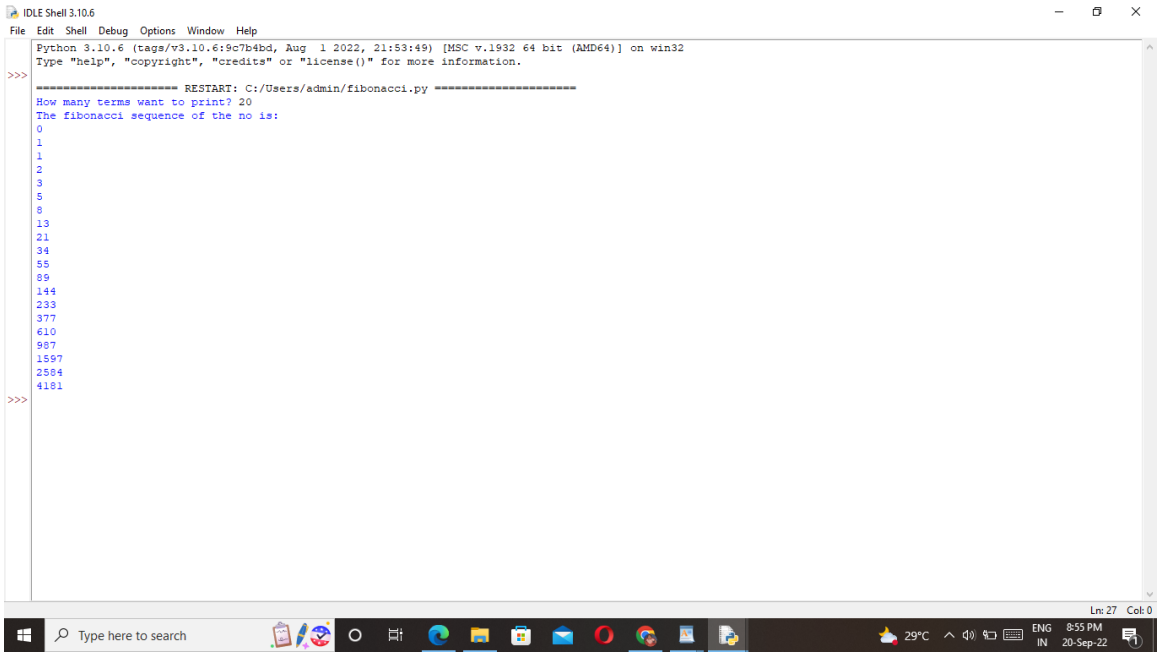


4.Write a python program to generate Fibonacci series

```
num = int(input ("How many terms want to print? "))
num1= 0
num2= 1
count = 0
    if num <= 0:
        print ("The given no is not valid,please enter +ve integer")
elif num == 1:
        print ("The Fibonacci sequence of the numbers up to", num, ": ")
        print(num1)
else:
        print ("The fibonacci sequence of the no is:")
        while count < num:
                print(num1)
                nth = num1 + num2
                num1= num2
                num2= nth
                count += 1
```


fibonacci.py - C:/Users/admin/fibonacci.py (3.10.6)
File Edit Format Run Options Window Help
num = int(input ("How many terms want to print? "))
num1= 0
num2= 1
count = 0
if num <= 0:
print ("The given no is not valid,please enter +ve integer")
elif num == 1:
print ("The Fibonacci sequence of the numbers up to", num, ": ")
print(num1)
else:
print ("The fibonacci sequence of the no is:")
while count < num:
print(num1)
nth = num1 + num2
num1= num2
num2= nth
count += 1
Ln: 4 Col: 0
Type here to search
29°C
ENG
IN
8:54 PM
20-Sep-22

OUTPUT:


IDLE Shell 3.10.6
File Edit Shell Debug Options Window Help
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: C:/Users/admin/fibonacci.py ==========
How many terms want to print? 20
The fibonacci sequence of the no is:
0
1
1
2
3
5
8
13
21
34
55
89
144
233
377
610
987
1597
2584
4181
>>>
Ln: 27 Col: 0
Type here to search
29°C
ENG
IN
8:55 PM
20-Sep-22