**Assignment - 4**

Python Programming

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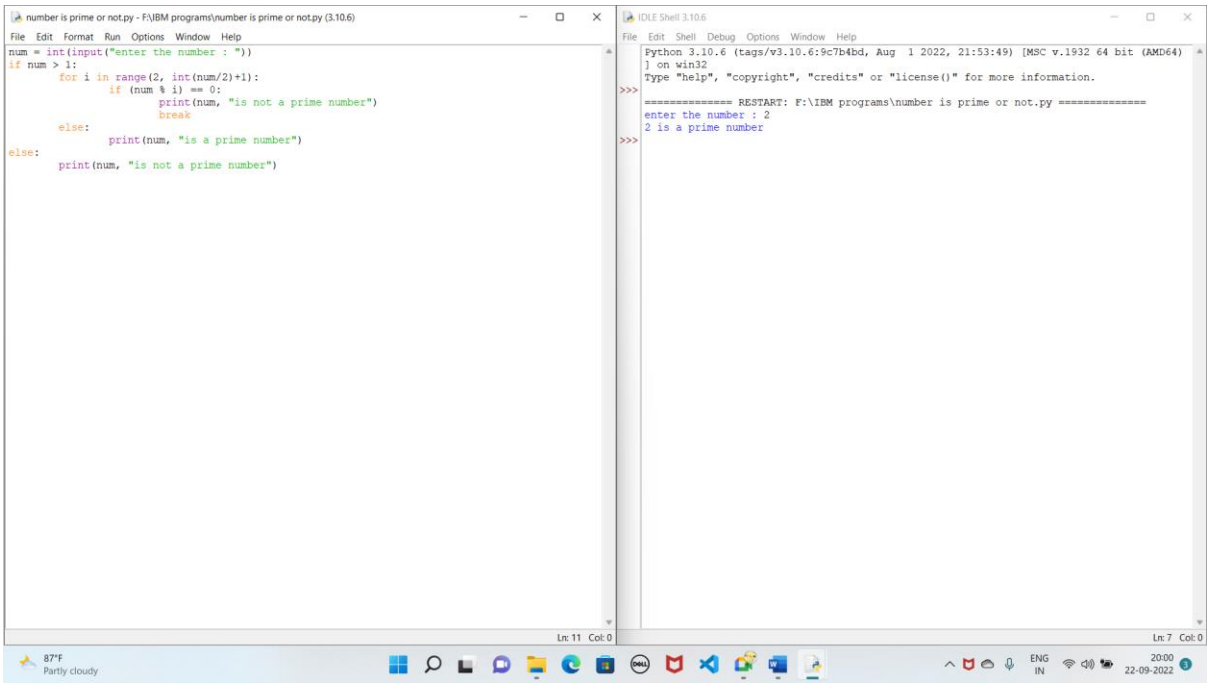
| Assignment Date | 19 September 2022 |
| Student Name | Ms.Nithyashree R |
| Student Roll Number | 820419104046 |
| Maximum Marks | 2 Marks |

**Question-1:**

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

**Solution:**

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

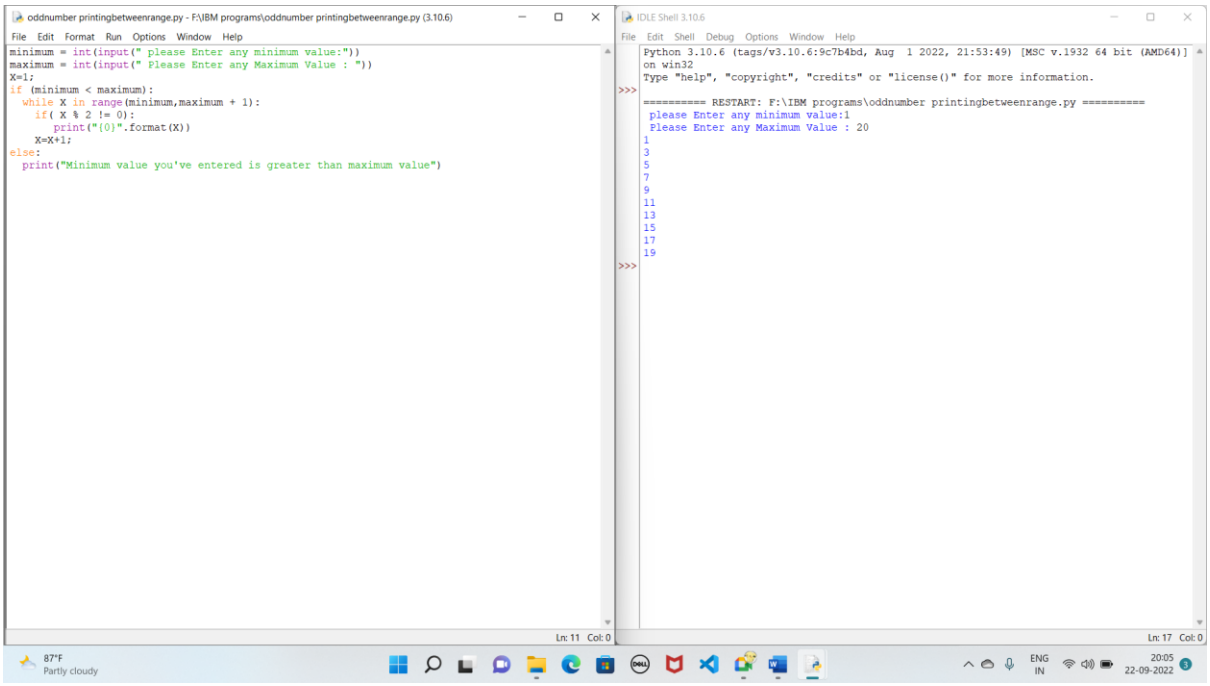



**Question-2:**

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

**Solution:**

```
minimum = int(input(" please Enter any minimum value:"))
maximum = int(input(" Please Enter any Maximum Value : "))
X=1;
if (minimum < maximum):
  while X in range(minimum,maximum + 1):
    if( X % 2 != 0):
       print("{0}".format(X))
    X=X+1;
else:
  print("Minimum value you've entered is greater than maximum value")
```




**Question-3:**

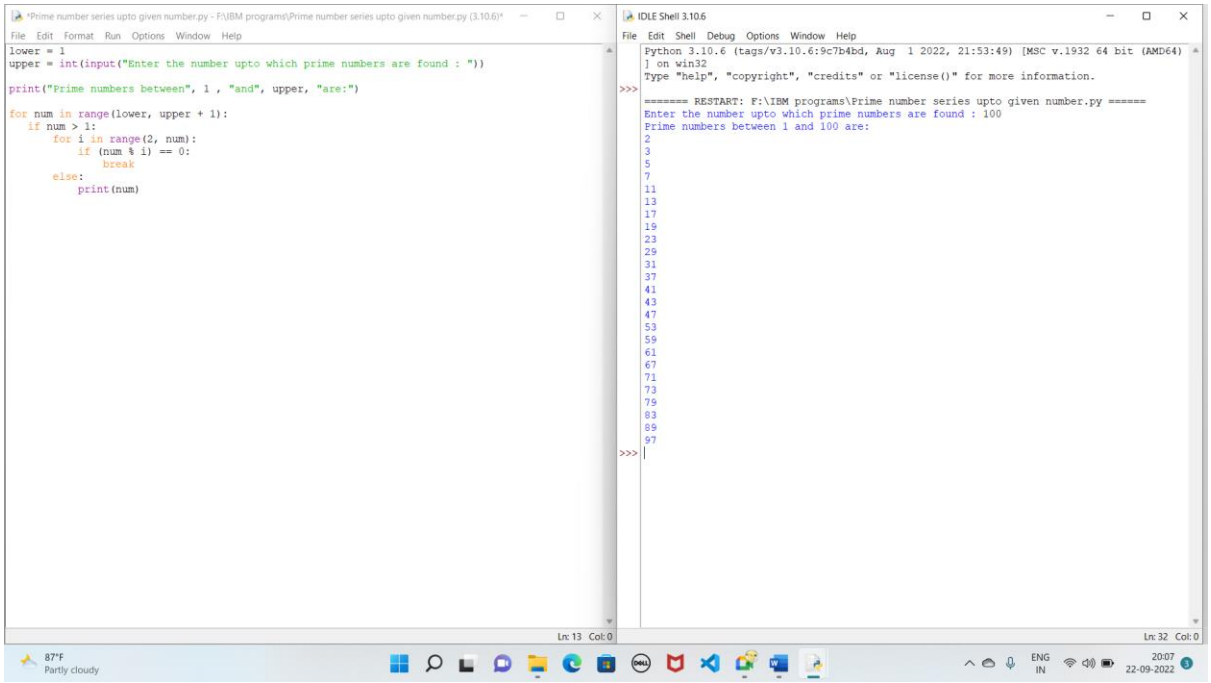
Write a python program to display prime number series up to given number.

**Solution:**

```
lower = 1
upper = int(input("Enter the number upto which prime numbers are found : "))

print("Prime numbers between", 1 , "and", upper, "are:")

for num in range(lower, upper + 1):
  if num > 1:
    for i in range(2, num):
      if (num % i) == 0:
        break
    else:
      print(num)
```



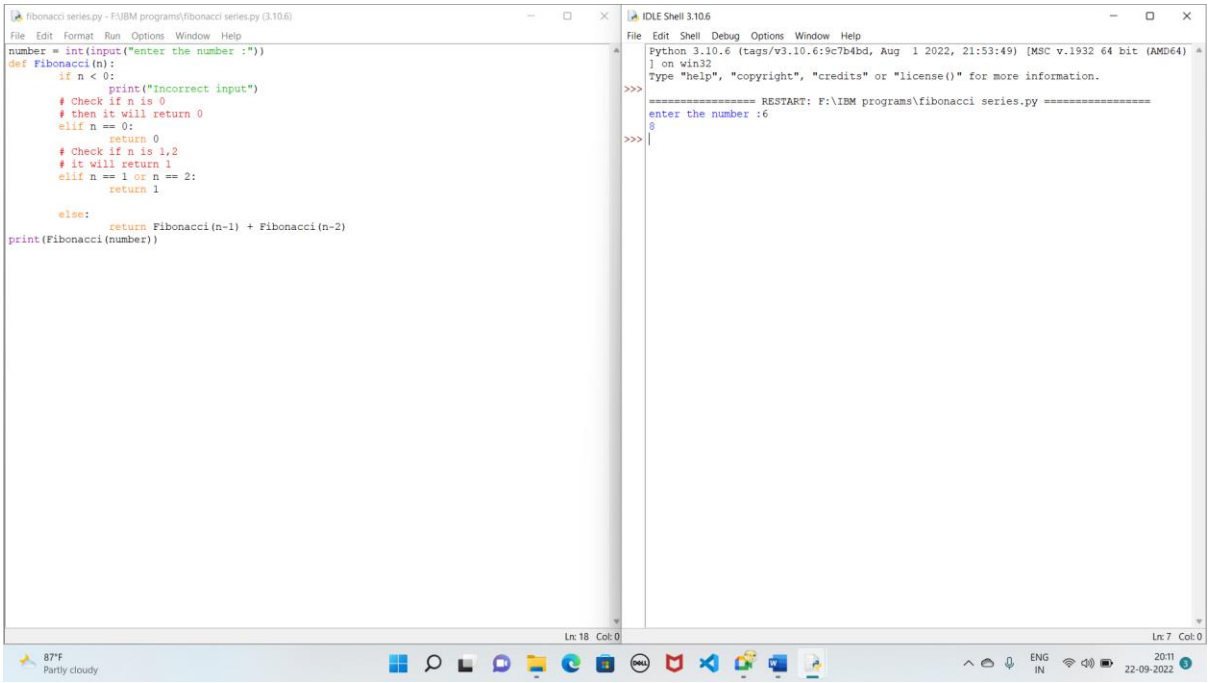

**Question-4:**

write a python program to generate Fibonacci Series?

**Solution:**

```
number = int(input("enter the number :"))

def Fibonacci(n):
        if n < 0:
                print("Incorrect input")
        # Check if n is 0
        # then it will return 0
        elif n == 0:
                return 0
        # Check if n is 1,2
        # it will return 1
        elif n == 1 or n == 2:
                return 1
else:
                return Fibonacci(n-1) + Fibonacci(n-2)
print(Fibonacci(number))
```


fibonacci series.py - F:\IBM programs\fibonacci series.py (3.10.6)
File Edit Format Run Options Window Help
number = int(input("enter the number :"))
def Fibonacci(n):
if n < 0:
print("Incorrect input")
# Check if n is 0
# then it will return 0
elif n == 0:
return 0
# Check if n is 1,2
# it will return 1
elif n == 1 or n == 2:
return 1
else:
return Fibonacci(n-1) + Fibonacci(n-2)
print(Fibonacci(number))
Ln: 18 Col: 0
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: F:\IBM programs\fibonacci series.py ==========
enter the number :6
8
>>>
Ln: 7 Col: 0
87°F
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