Assignment - 3
Python Programming

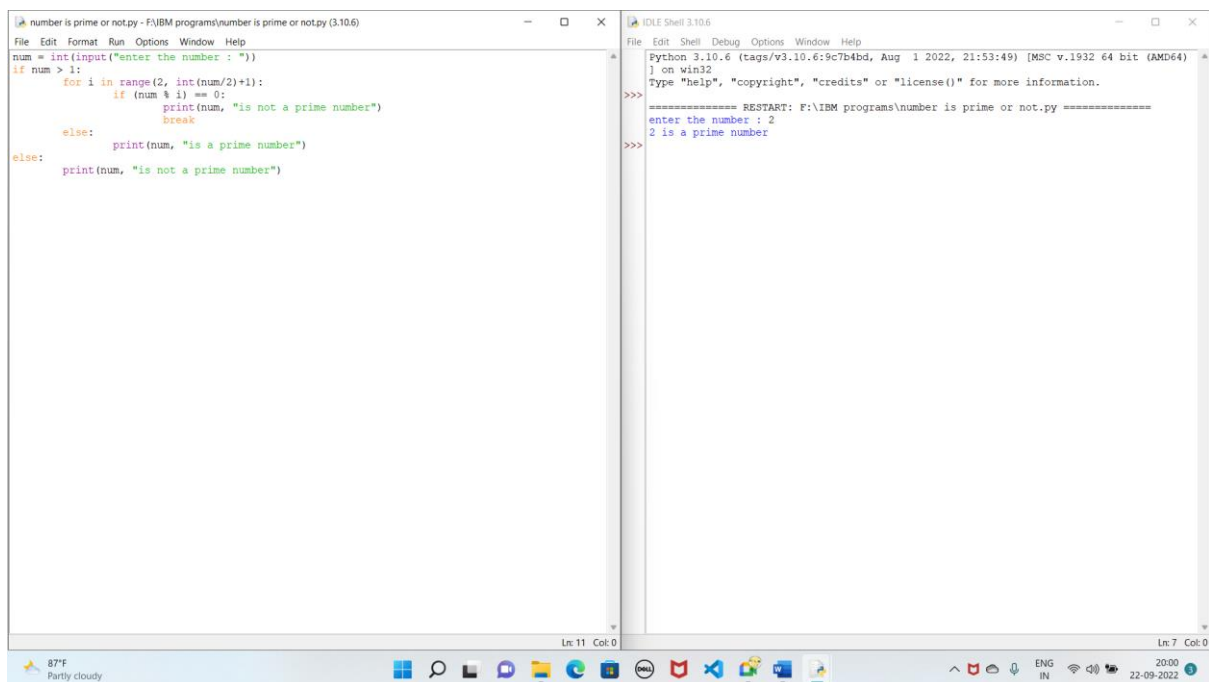|	
Assignment Date	19 September 2022
Student Name	Ms.Nithyashree R
Student Roll Number	820419104046
Maximum Marks	2 Marks

Question-1:

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

Solution:

```python
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:

```python
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")
```
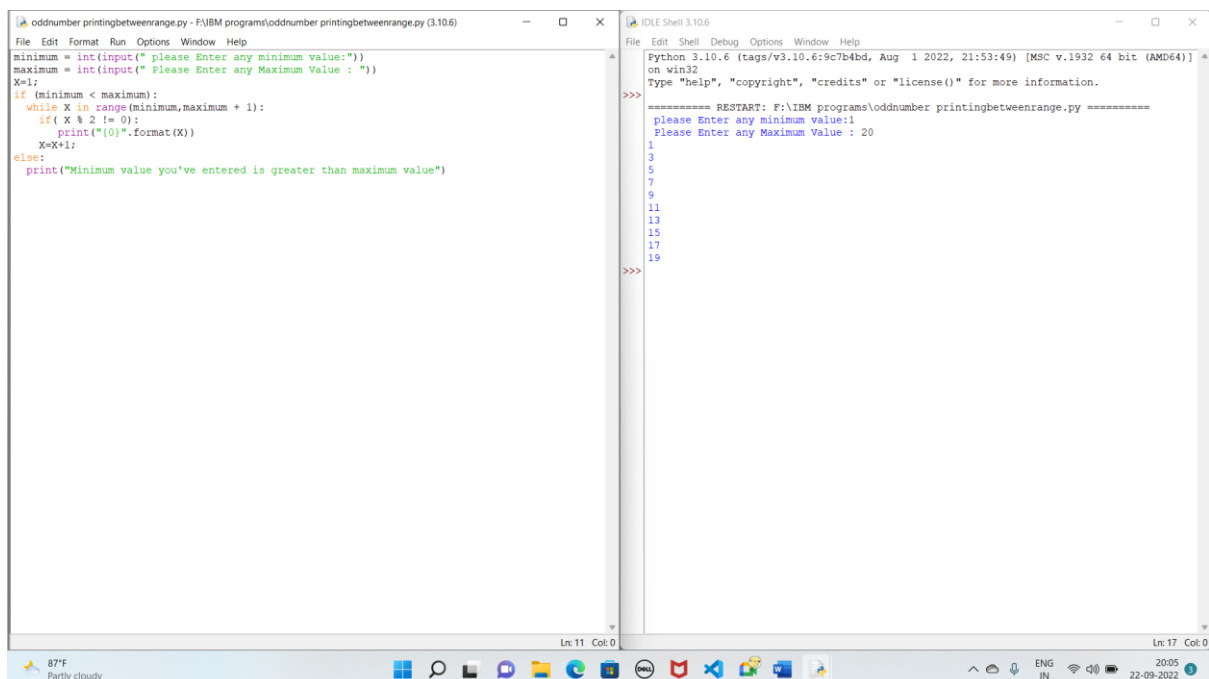

Question-3:

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

Solution:

```python
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:

```python
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))
```

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```python
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

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```
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
Partly cloudy

ENG
IN

20:11
22-09-2022

---

fibonacci series.py - F:\IBM programs\fibonacci series.py (3.10.6)

File Edit Format Run Options Window Help

```python
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
```

IDLE Shell 3.10.6

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```
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug  1 2022, 21:53:49) [MSC v.1932 64 bit (AMD64)
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