Assignment

Name: K. Durgaparameshwari

College: Dr. Mahalingam College of Engineering and Technology

Batch no: - B2A4E-08

Program 1:

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

```
File   Edit   Format   Run   Options   Window   Help
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")
```

OUTPUT:

```
IDLE Shell 3.9.4                                              —    □    X
File   Edit   Shell   Debug   Options   Window   Help
Python 3.9.4 (tags/v3.9.4:1f2e308, Apr  6 2021, 13:40:21) [MSC v.1928 64 bit (AM
D64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
================== RESTART: D:/python & oops/primenumber.py ==================
enter the number:11
11 is a prime number
>>>
================== RESTART: D:/python & oops/primenumber.py ==================
enter the number:22
22 is not a prime number
>>>
================== RESTART: D:/python & oops/primenumber.py ==================
enter the number:17
17 is a prime number
>>>
```

Program 2:

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

```
File  Edit  Format  Run  Options  Window  Help
start=int(input("enter the start number :"))
end=int(input("enter the end number :"))
while start<=end:

    if start%2!=0:

        print(start,end="")
    start+=1
```

OUTPUT:

```
== RESTART: C:/Users/91936/AppData/Local/Programs/Python/Python39/startnum.py ==
enter the start number :1
enter the end number :11
1357911
>>>
```

Program 3:

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

```
File  Edit  Format  Run  Options  Window  Help
start = int(input("Enter the start num : "))
end = int(input("Enter the min num : "))
for n in range(start,end + 1):
    if n > 1:
        for i in range(2,n):
            if (n % i) == 0:
                break
        else:
            print(n)
```

OUTPUT:

```
== RESTART: C:/Users/91936/AppData/Local/Programs/Python/Python39/startnum.py ==
Enter the start num : 3
Enter the min num : 17
3
5
7
11
13
17
>>>
```

Program 4:

Write a Python program to generate Fibonacci series.

File   Edit   Format   Run   Options   Window   Help

```python
num = int(input("enter the number:"))
n1, n2 = 0, 1
print("Fibonacci Series:", n1, n2, end=" ")
for i in range(2, num):
    n3 = n1 + n2
    n1 = n2
    n2 = n3
    print(n3, end=" ")

print()
```

OUTPUT:

```
== RESTART: C:/Users/91936/AppData/Local/Programs/Python/Python39/startnum.py ==
enter the number:9
Fibonacci Series: 0 1 1 2 3 5 8 13 21
>>>
```