

## Assignment -3

### Python Programming

Assignment Date	27 September 2022
Student Name	TAMILSELVAN S
Student Roll Number	421319104035
Maximum Marks	2 Marks

#### Question-1:

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

#### Solution:

n=5

if(n%2)==0:

    print("n is not a prime")

else:

    print("n is a prime")

The screenshot shows a Python IDE with two windows. The left window, titled 'prime.py - E:/Sathish ibm/prime.py (3.7.8)', contains the following code:

```
n=5
if(n%2)==0:
    print("n is not a prime")
else:
    print("n is a prime")
```

The right window, titled 'Python 3.7.8 Shell', shows the output of the program:

```
Python 3.7.8 (tags/v3.7.8:4b47a5b6ba, Jun 28 2020, 08:53:46) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:/Sathish ibm/prime.py =====
n is a prime
>>> |
```

The taskbar at the bottom shows the system clock as 2:55 PM on 27-Sep-22.

## Question-2:

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

## Solution:

```
List=[23,65,76,12,19,98,43,61]
```

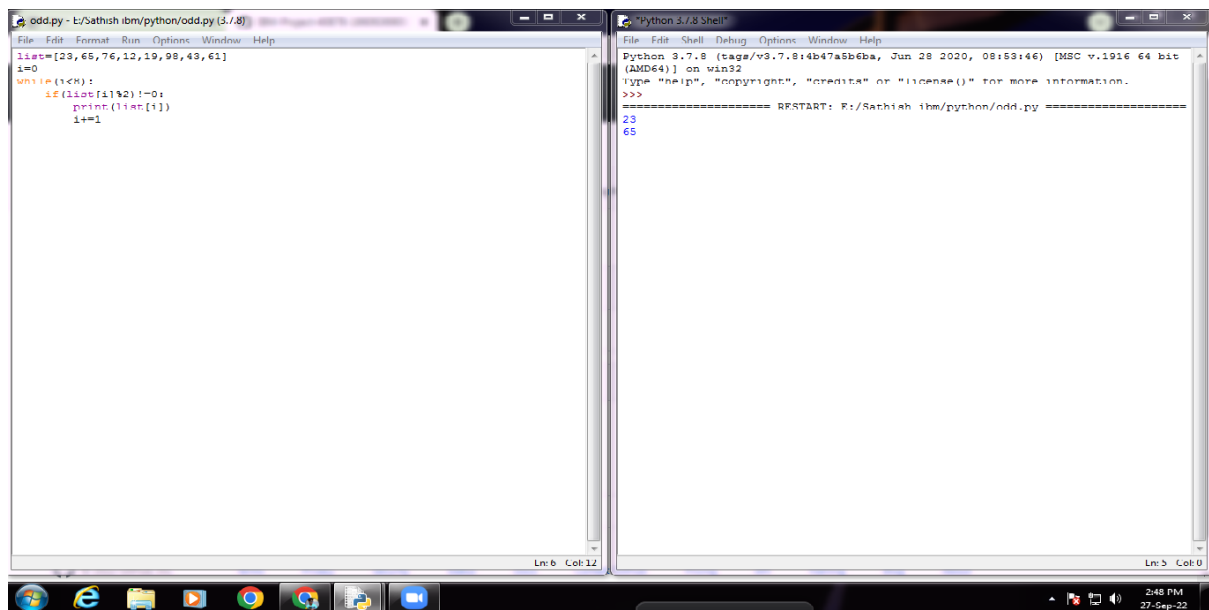
```
i=0
```

```
while(i<8):
```

```
if(list[i]%2)!=0:
```

```
print(list[i])
```

```
i+=1
```



### Question-3:

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

### Solution:

```
start=int(input("enter the starting range:"))
```

```
end=int(input("enter the ending range:"))
```

```
for num in range(start,end+1):
```

```
    if num>1:
```

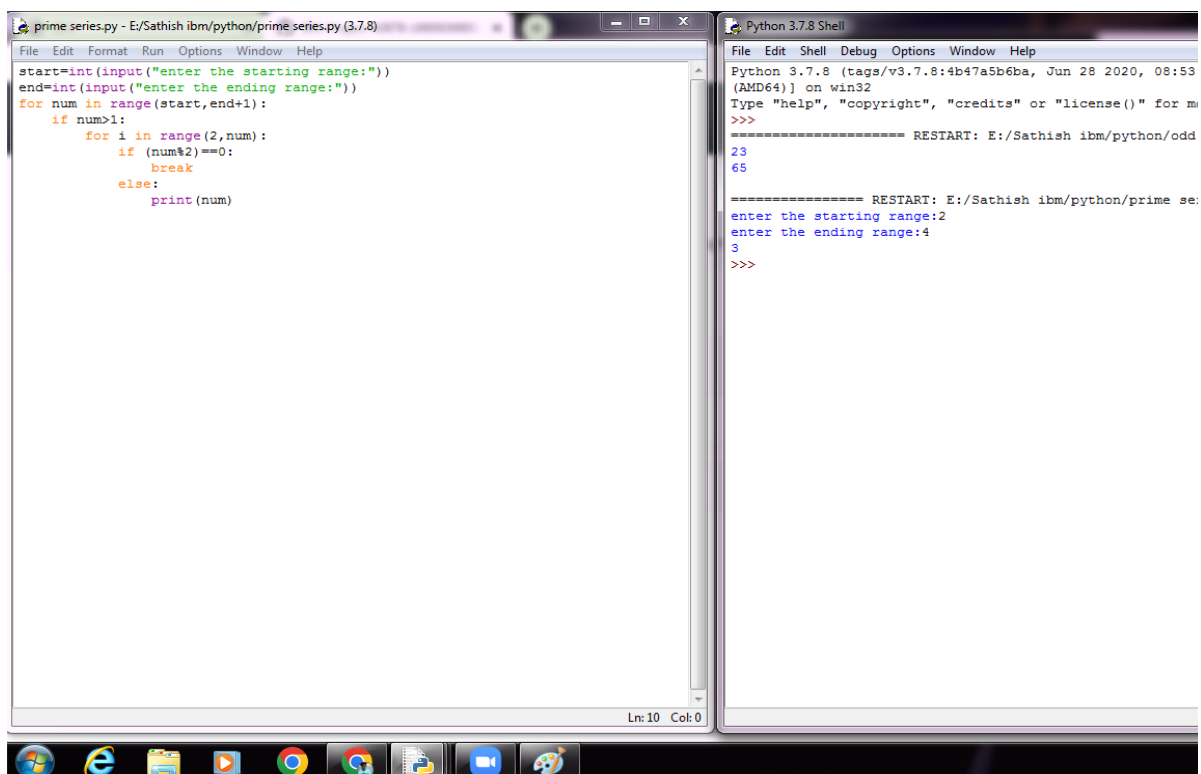
```
        for i in range(2,num):
```

```
            if (num%2)==0:
```

```
                break
```

```
            else:
```

```
                print(num)
```



The screenshot displays a Python IDE with two windows. The left window, titled 'prime series.py - E:/Sathish ibm/python/prime series.py (3.7.8)', contains the following code:

```
start=int(input("enter the starting range:"))
end=int(input("enter the ending range:"))
for num in range(start,end+1):
    if num>1:
        for i in range(2,num):
            if (num%i)==0:
                break
            else:
                print(num)
```

The right window, titled 'Python 3.7.8 Shell', shows the execution output:

```
Python 3.7.8 (tags/v3.7.8:4b47a5b6ba, Jun 28 2020, 08:53
(AMD64)) on win32
Type "help", "copyright", "credits" or "license()" for m
>>>
===== RESTART: E:/Sathish ibm/python/odd
23
65
===== RESTART: E:/Sathish ibm/python/prime se:
enter the starting range:2
enter the ending range:4
3
>>>
```

The taskbar at the bottom shows various application icons, including the Start button, Edge browser, File Explorer, and several other utility programs.

#### Question-4:

Write a python program to generate Fibonacci series

#### Solution:

```
num=10
```

```
n1,n2=0,1
```

```
print("Fibonacci series are:")
```

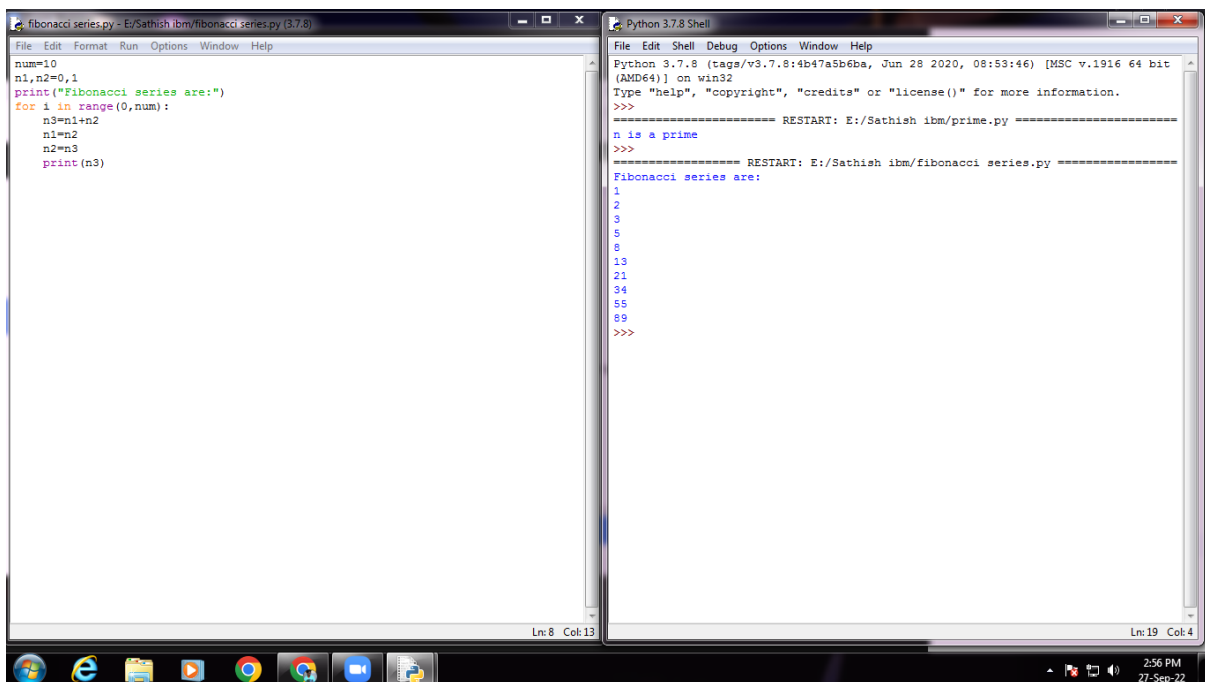
```
for i in range(0,num):
```

```
    n3=n1+n2
```

```
    n1=n2
```

```
    n2=n3
```

```
    print(n3)
```



The screenshot displays a Python IDE with two windows. The left window, titled 'fibonacci series.py', contains the following code:

```
num=10
n1,n2=0,1
print("Fibonacci series are:")
for i in range(0,num):
    n3=n1+n2
    n1=n2
    n2=n3
    print(n3)
```

The right window, titled 'Python 3.7.8 Shell', shows the output of the program after execution. It displays the message 'Fibonacci series are:' followed by the first 10 numbers of the Fibonacci sequence: 1, 1, 2, 3, 5, 8, 13, 21, 34, and 55. The output is as follows:

```
Python 3.7.8 (tags/v3.7.8:4b47a5b6ba, Jun 28 2020, 08:53:46) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:/Sathish ibm/prime.py =====
>>>
n is a prime
>>>
===== RESTART: E:/Sathish ibm/fibonacci series.py =====
Fibonacci series are:
1
1
2
3
5
8
13
21
34
55
>>>
```