

Assignment -3

Python Programming

Assignment Date	27 September 2022
Student Name	B.Tamil yazhini
Student Roll Number	421319104036
Maximum Marks	2 Marks

Question-1:

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

Solution:

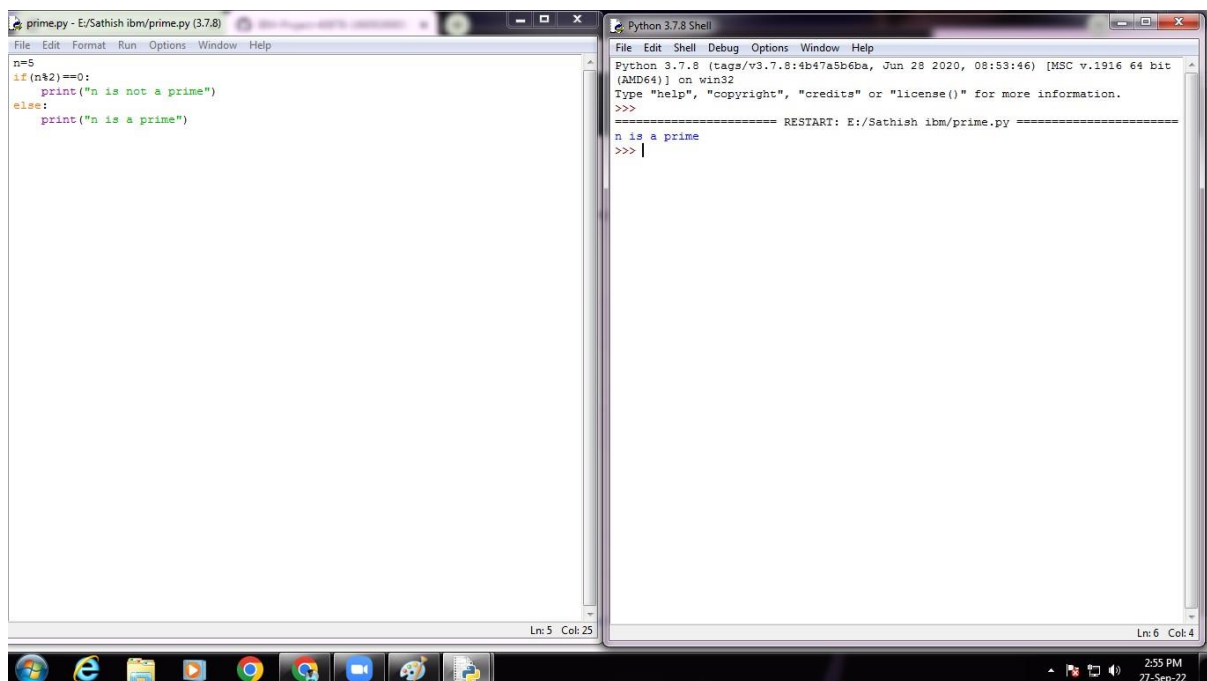
n=5

if(n%2)==0:

 print("n is not a prime")

else:

 print("n is a prime")



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]
```

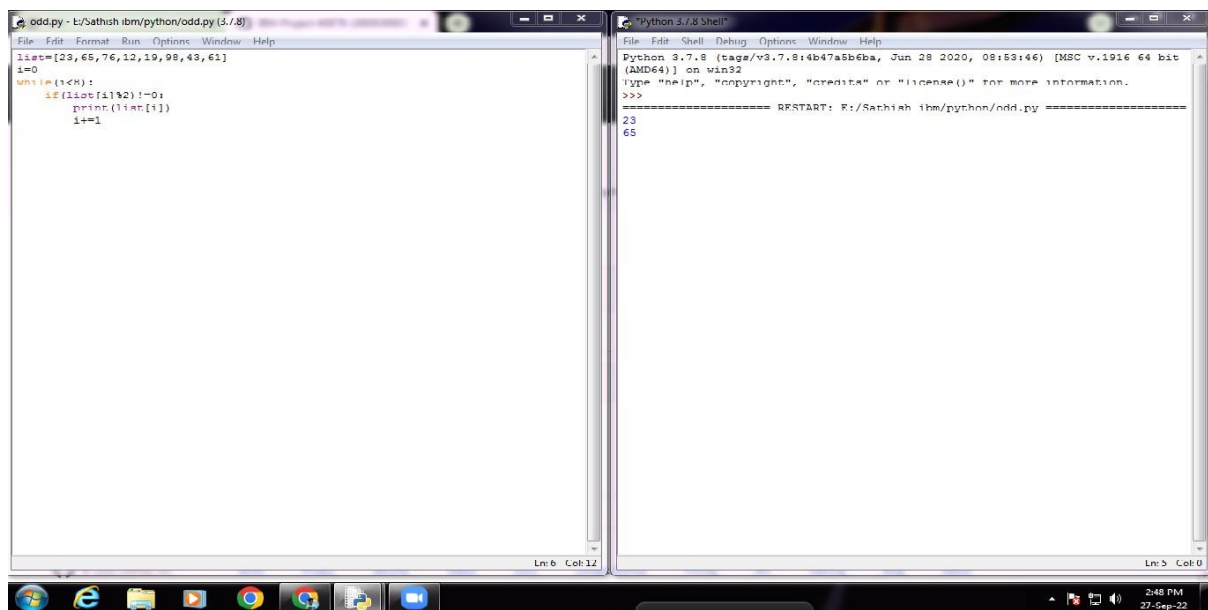
```
i=0
```

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

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

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

```
i+=1
```



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

```
list=[23,65,76,12,19,98,43,61]
i=0
while i<8:
    if list[i]%2!=0:
        print(list[i])
    i+=1
```

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, 08:59:46) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:/Sathish ibm/python/odd.py =====
23
65
```

The taskbar at the bottom shows the system clock as 2:48 PM on 27-Sep-22.

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:
```

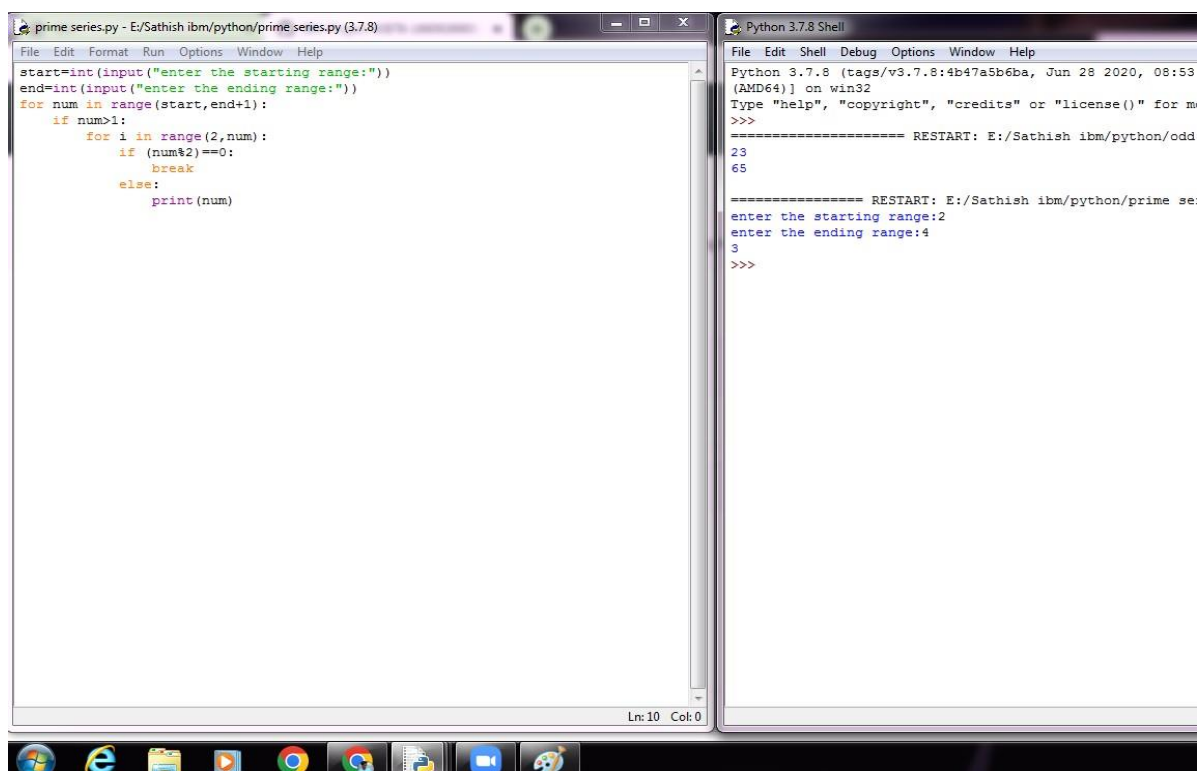
```
        for i in range(2,num):
```

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

```
                break
```

```
            else:
```

```
                print(num)
```



The screenshot shows 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%2)==0:
                break
            else:
                print(num)
```

The right window, titled 'Python 3.7.8 Shell', shows the output of the program. It displays the prompt 'Python 3.7.8 (tags/v3.7.8:4b47a5b6ba, Jun 28 2020, 08:53 (AMD64)) on win32' followed by 'Type "help", "copyright", "credits" or "license()" for m'. The user has entered '2' for the starting range and '4' for the ending range. The program has restarted and printed the prime numbers 2 and 3.

```
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
>>>
```

Question-4:

Write a python program to generate Fibonacci series

Solution:

```
num=10
```

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

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

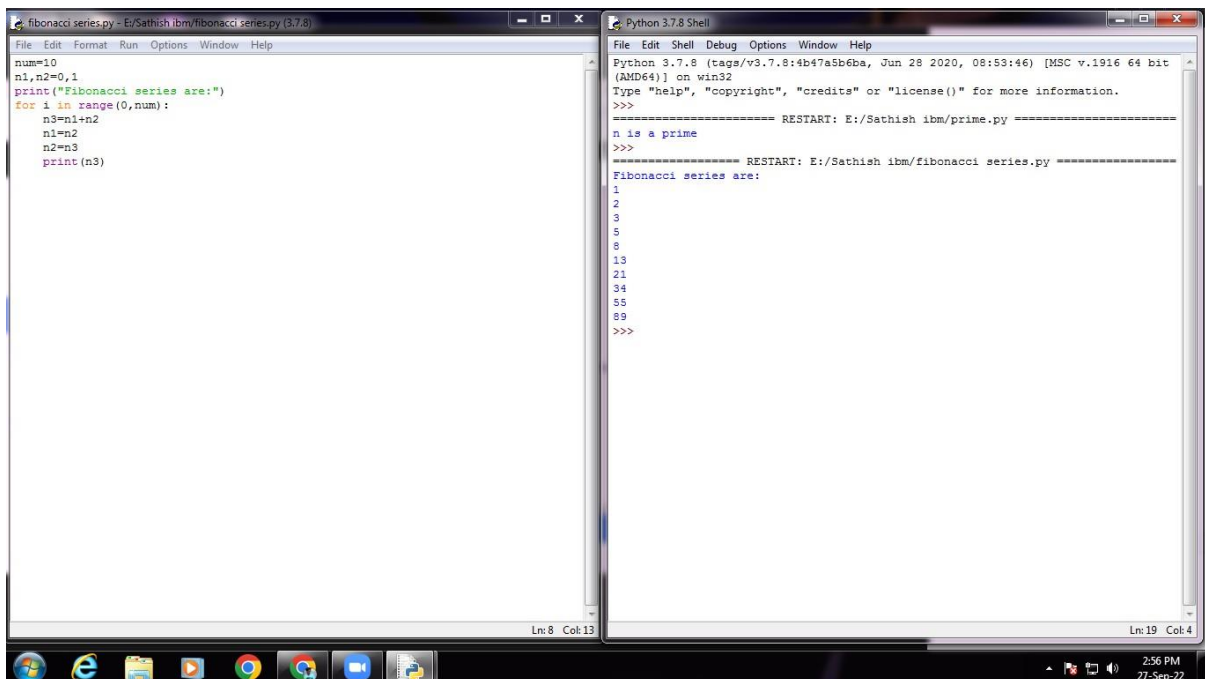
```
for i in range(0,num):
```

```
    n3=n1+n2
```

```
    n1=n2
```

```
    n2=n3
```

```
    print(n3)
```



The screenshot displays a Python 3.7.8 IDE with two windows. The left window, titled 'fibonacci series.py - E:/Sathish ibm/fibonacci series.py (3.7.8)', 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:

```
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
2
3
5
8
13
21
34
55
89
>>>
```

The taskbar at the bottom shows the system clock as 2:56 PM on 27-Sep-22.