Assignment -1

Python Programming

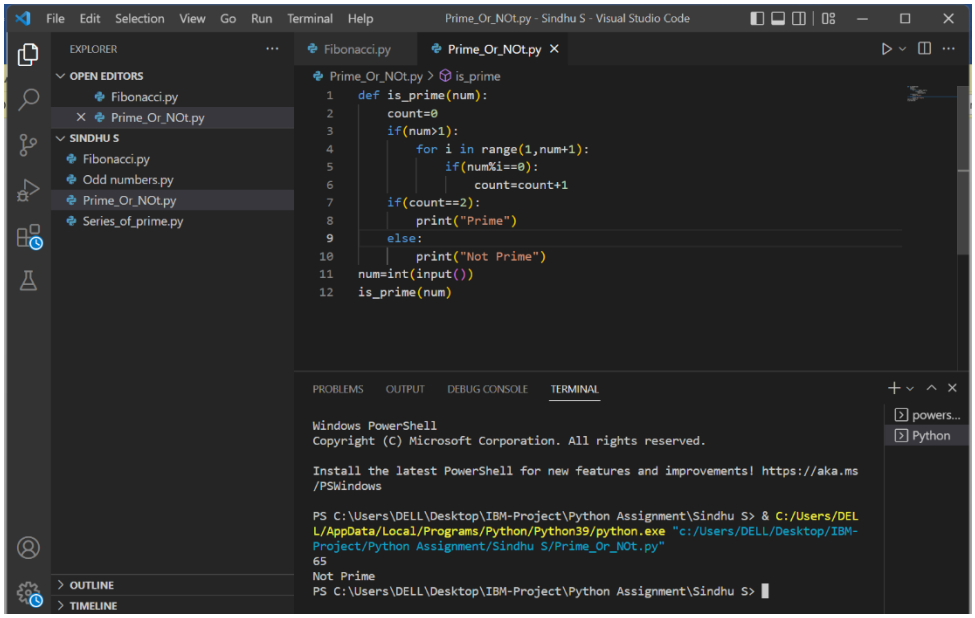
Assignment Date	19 September 2022
Student Name	Ms. Sindhu S
Student Roll Number	711319CS15
Maximum Marks	2 Marks

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

Solution:

```
def is_prime(num):
    count=0
    if(num>1):
        for i in range(1,num+1):
            if(num%i==0):
                count=count+1
    if(count==2):
        print("Prime")
    else:
        print("Not Prime")
num=int(input())
is_prime(num)
```

Output:

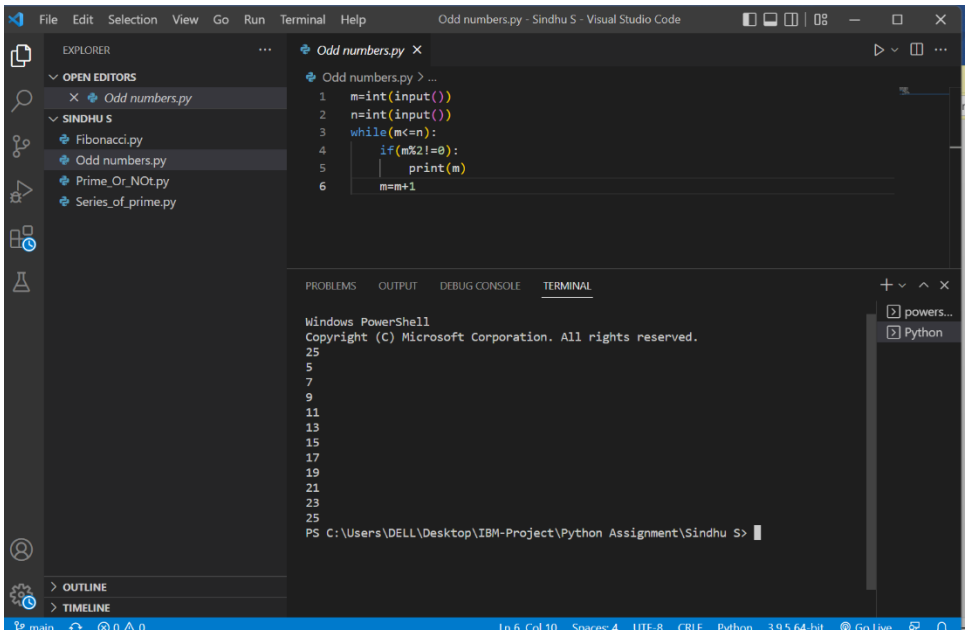


2.Write a program to generate odd numbers from m to n using while loop.

Solution:

```
m=int(input())
n=int(input())
while(m<=n):
    if(m%2!=0):
        print(m)
    m=m+1
```

Output:

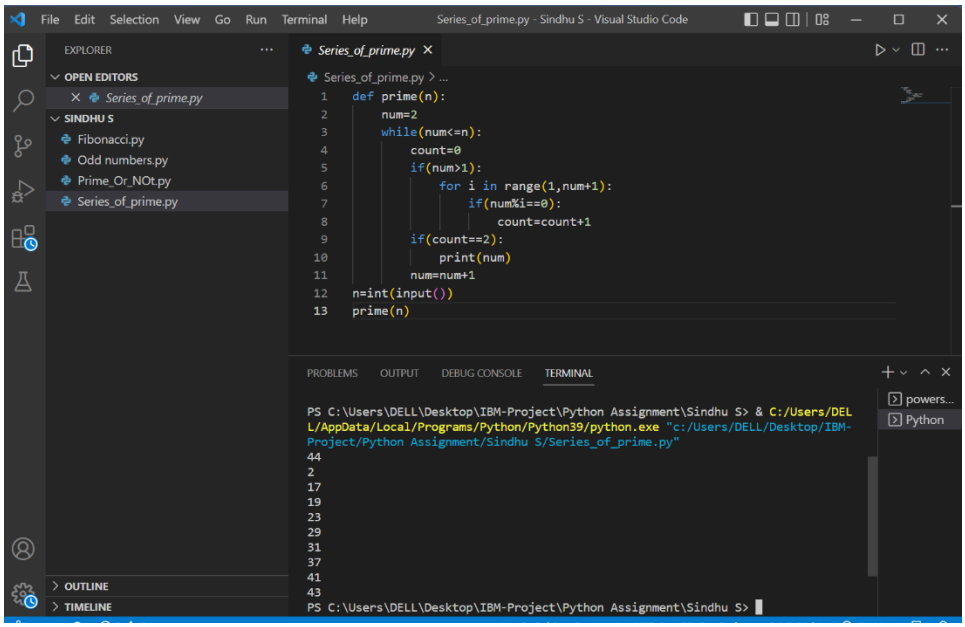


3.Write a program to generate a prime number series upto a given number.

Solution:

```
def prime(n):
    num=2
    while(num<=n):
        count=0
        if(num>1):
            for i in range(1,num+1):
                if(num%i==0):
                    count=count+1
        if(count==2):
            print(num)
        num=num+1
n=int(input())
prime(n)
```

Output:

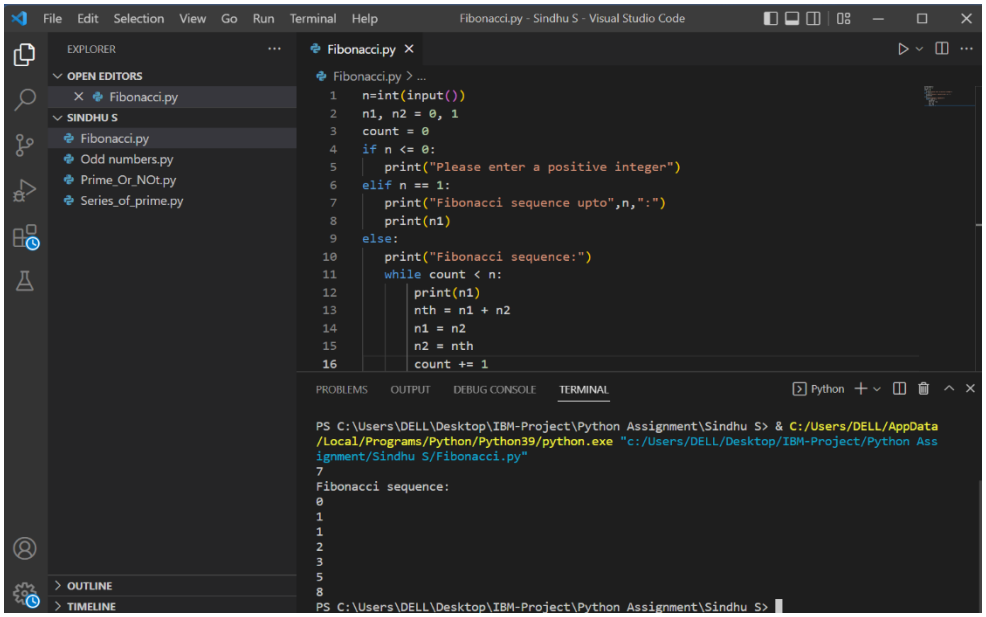


4.Write a python program to generate Fibonacci series.

Solution:

```
n=int(input())
n1, n2 = 0, 1
count = 0
if n <= 0:
   print("Please enter a positive integer")
elif n == 1:
   print("Fibonacci sequence upto",n,":")
   print(n1)
else:
   print("Fibonacci sequence:")
   while count < n:
       print(n1)
       nth = n1 + n2
       n1 = n2
       n2 = nth
       count += 1
```

Output:


File Edit Selection View Go Run Terminal Help
Fibonacci.py - Sindhu S - Visual Studio Code
EXPLORER
OPEN EDITORS
Fibonacci.py
SINDHU S
Fibonacci.py
Odd numbers.py
Prime_Or_NOt.py
Series_of_prime.py
OUTLINE
TIMELINE
Fibonacci.py
Fibonacci.py > ...
1 n=int(input())
2 n1, n2 = 0, 1
3 count = 0
4 if n <= 0:
5 print("Please enter a positive integer")
6 elif n == 1:
7 print("Fibonacci sequence upto",n,":")
8 print(n1)
9 else:
10 print("Fibonacci sequence:")
11 while count < n:
12 print(n1)
13 nth = n1 + n2
14 n1 = n2
15 n2 = nth
16 count += 1
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Python
PS C:\Users\DELL\Desktop\IBM-Project\Python Assignment\Sindhu S> & C:/Users/DELL/AppData/Local/Programs/Python/Python39/python.exe "c:/Users/DELL/Desktop/IBM-Project/Python Assignment/Sindhu S/Fibonacci.py"
7
Fibonacci sequence:
0
1
1
2
3
5
8
PS C:\Users\DELL\Desktop\IBM-Project\Python Assignment\Sindhu S>