**Assignment -1**

Python Programming

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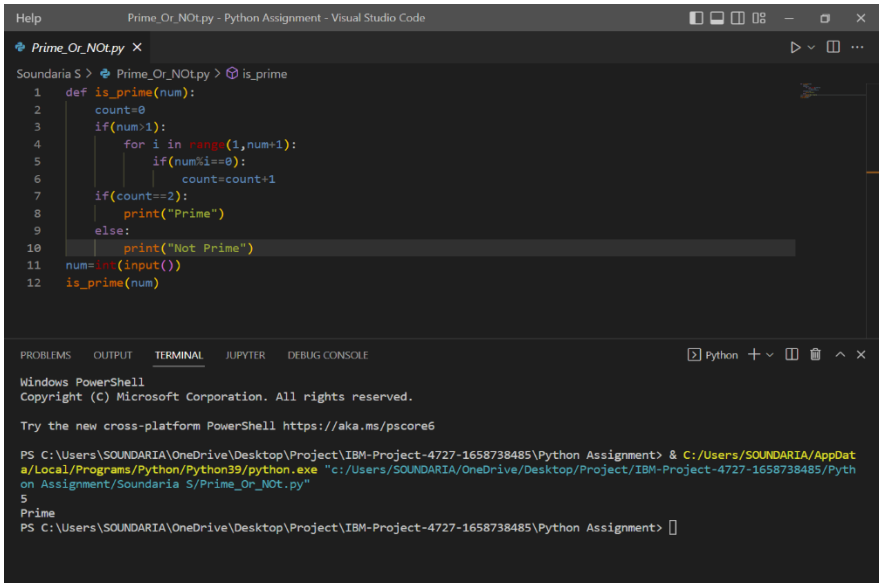
| Assignment Date | 19 September 2022 |
| Student Name | Ms. Soundaria S |
| Student Roll Number | 711319CS155 |
| Maximum Marks | 2 Marks |

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:



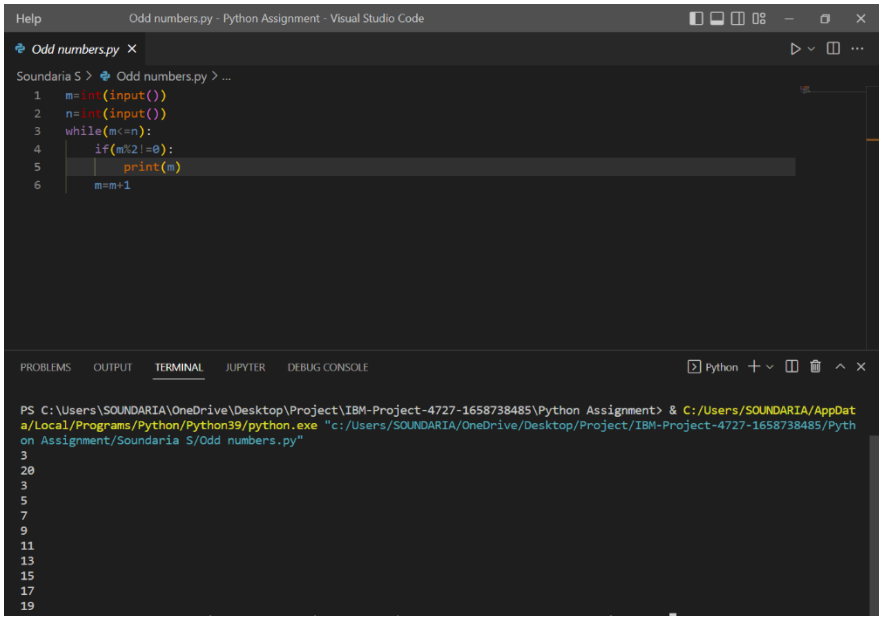

2.Write a program to generate odd numbers from m to n using while loop.

Solution:

```
m=int(input())
n=int(input())
while(m<=n):
```

```
    if(m%2!=0):
        print(m)
    m=m+1
```

Output:

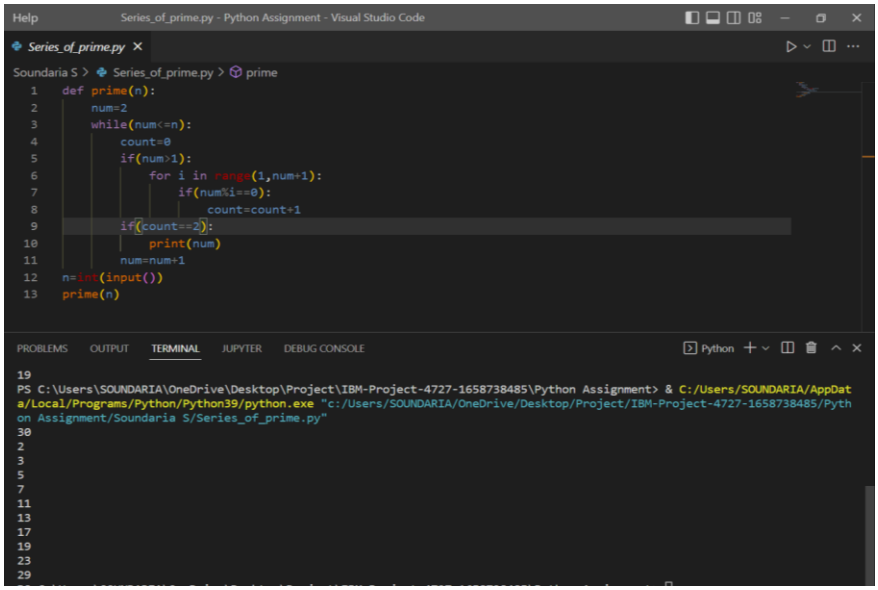



3.Write a program to generate a prime number series upto a given number.

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:

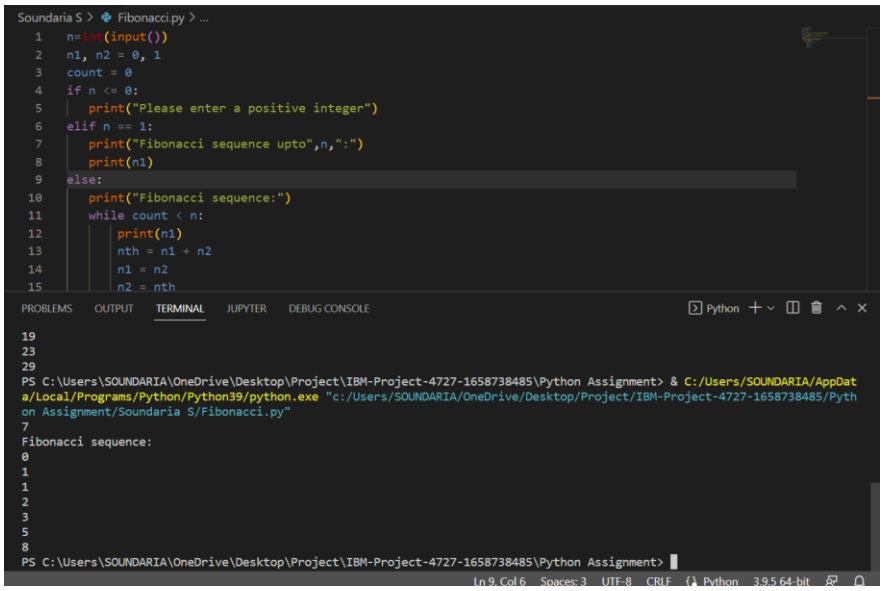



4.Write a python program to generate Fibonacci series.

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:


Soundaria S > Fibonacci.py > ...
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
PROBLEMS
OUTPUT
TERMINAL
JUPYTER
DEBUG CONSOLE
Python
19
23
29
PS C:\Users\SOUNDARIA\OneDrive\Desktop\Project\IBM-Project-4727-1658738485\Python Assignment> & C:/Users/SOUNDARIA/AppData/Local/Programs/Python/Python39/python.exe "c:/Users/SOUNDARIA/OneDrive/Desktop/Project/IBM-Project-4727-1658738485/Python Assignment/Soundaria S/Fibonacci.py"
7
Fibonacci sequence:
0
1
1
2
3
5
8
PS C:\Users\SOUNDARIA\OneDrive\Desktop\Project\IBM-Project-4727-1658738485\Python Assignment>
Ln 9, Col 6
Spaces: 3
UTF-8
CRLF
Python
3.9.5 64-bit