IBM ASSIGNMENT 1

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

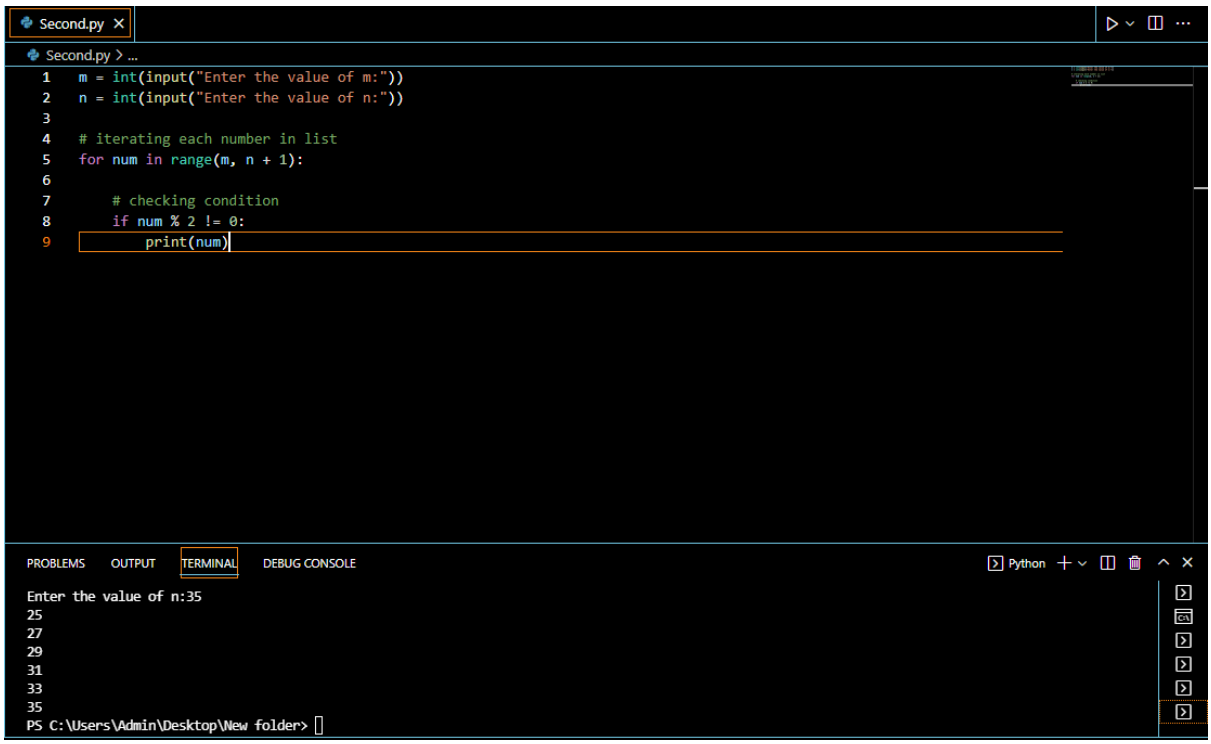
Program:

```
num = int(input("Enter a number: "))
flag = False
if num > 1:
   for i in range(2, num):
       if (num % i) == 0:
         flag = True
         break
if flag:
    print(num, "is not a prime number")
else:
    print(num, "is a prime number")
```

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

Program:

```
m= int(input(" Please Enter the Maximum Value : "))
number = 1
while number <= maximum:
    if(number % 2 != 0):
        print("{0}".format(number))
    number = number + 1
```

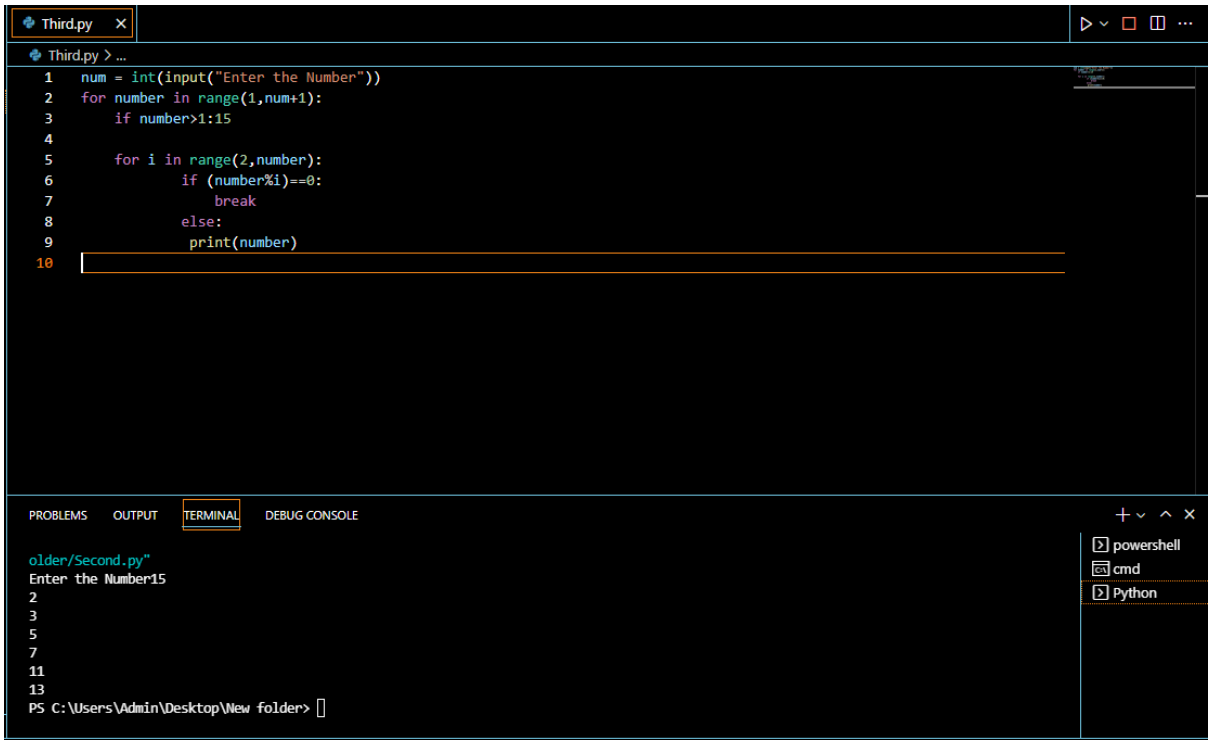


3.Write a python program to display prime number series up to given number

Program:

```
num = int(input("Enter the Number"))
for number in range(1,num+1):
   if number>1:15

   for i in range(2,number):
         if (number%i)==0:
            break
         else:
          print(number)
```



4.Write a python program to generate fibonacci series

Program:

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