IBM ASSIGNMENT 1

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

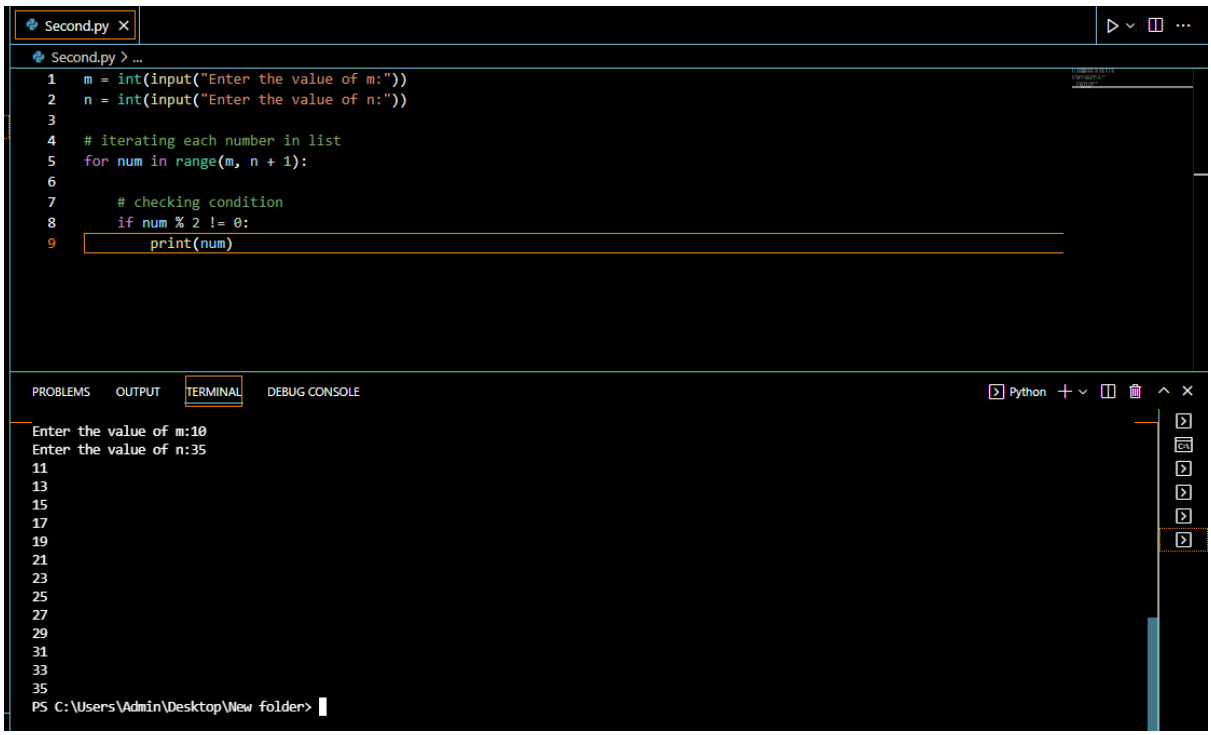
Program:

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