IBM ASSIGNMENT 1

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

Program

n=int(input("enter the number"))

if n > 1:

for i in range(2, n):

if (n % i) == 0:

print(n, "is not a prime number")

break
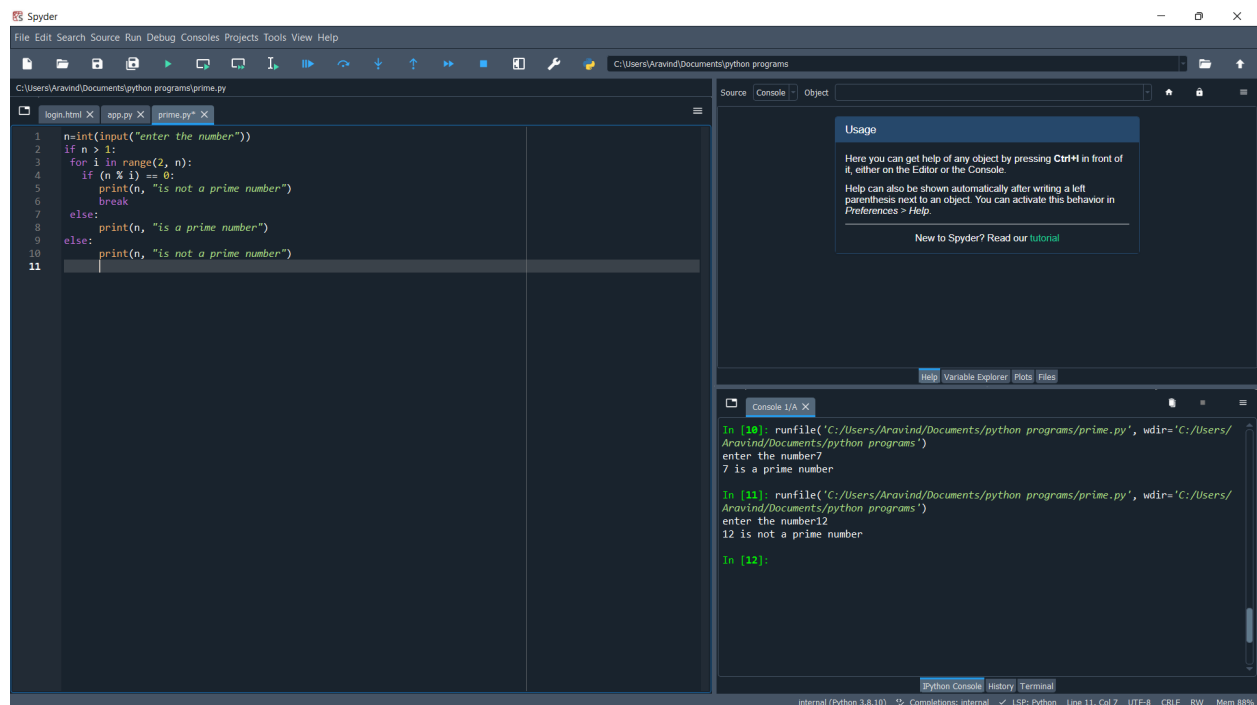
else:

print(n, "is a prime number")
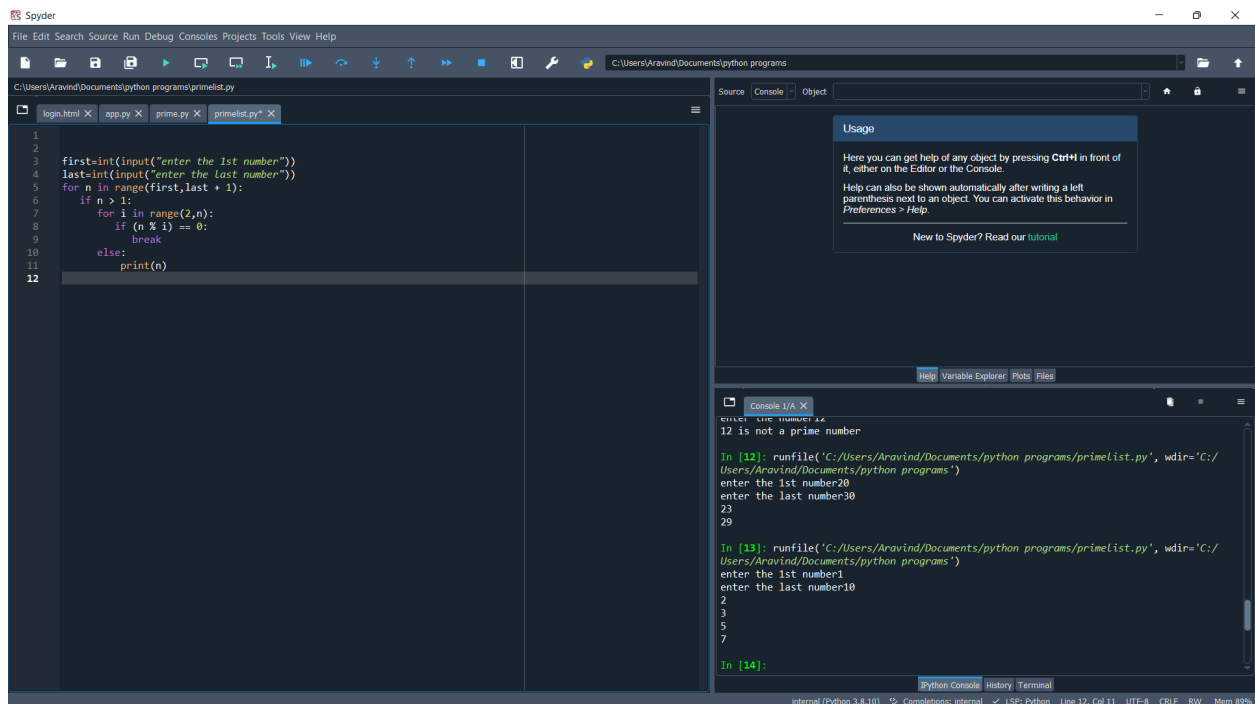
else:

print(n, "is not a prime number")

OUTPUT:

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

Program:

```
first=int(input("enter the 1st number"))
last=int(input("enter the last number"))
for n in range(first,last + 1):
if n > 1:
for i in range(2,n):
if (n % i) == 0:
break
else:
print(n)
```

OUTPUT:

4.Write a python program to generate fibonacci series

Program:

```
n = int(input("How many times ? "))
a1, a2 = 0, 1
count = 0
```

```python
if n <= 0:

print("Please enter a positive integer")

elif n == 1:

print("Fibonacci sequence upto",n,":")

print(a1)

else:

print("Fibonacci sequence:")

while count < n:

print(a1)

a = a1 + a2

a1 = a2

a2 = a

count += 1
```

OUTPUT:

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

Program:

m=int(input("enter the 1st number"))
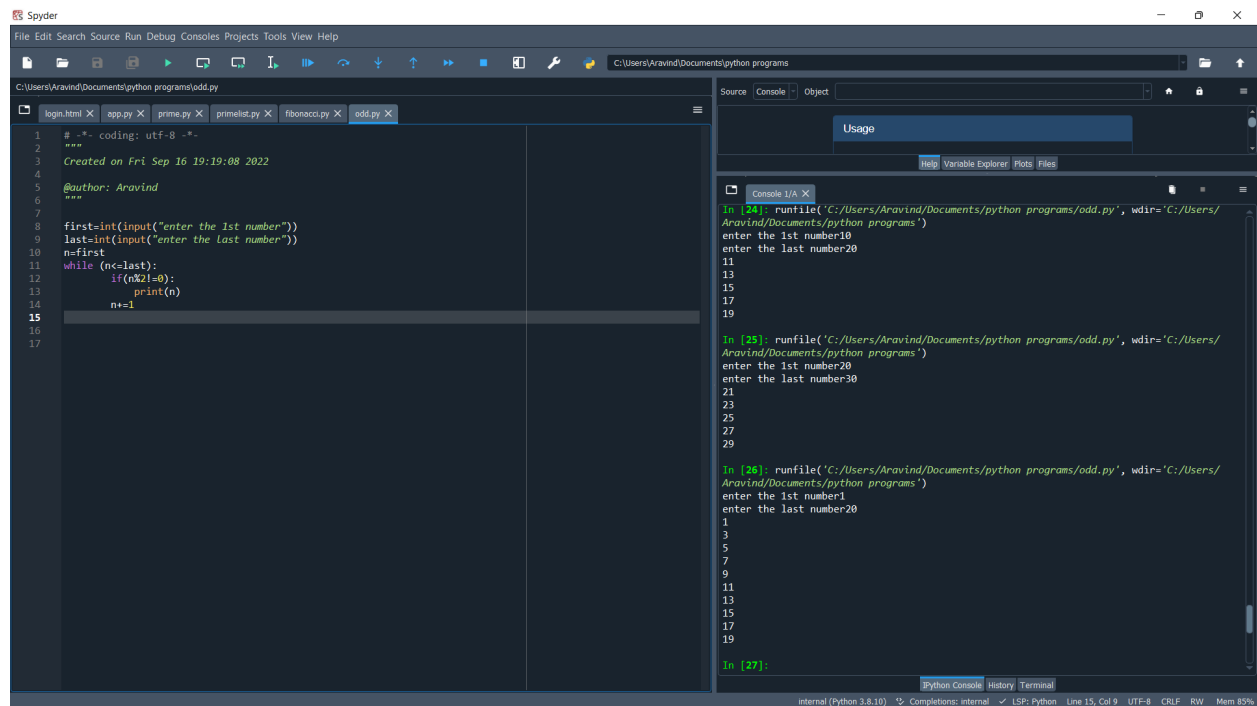
n=int(input("enter the last number"))

p=m

while (p<=n):

    if(n%2!=0):

       print(n)

    p+=1

OUTPUT: