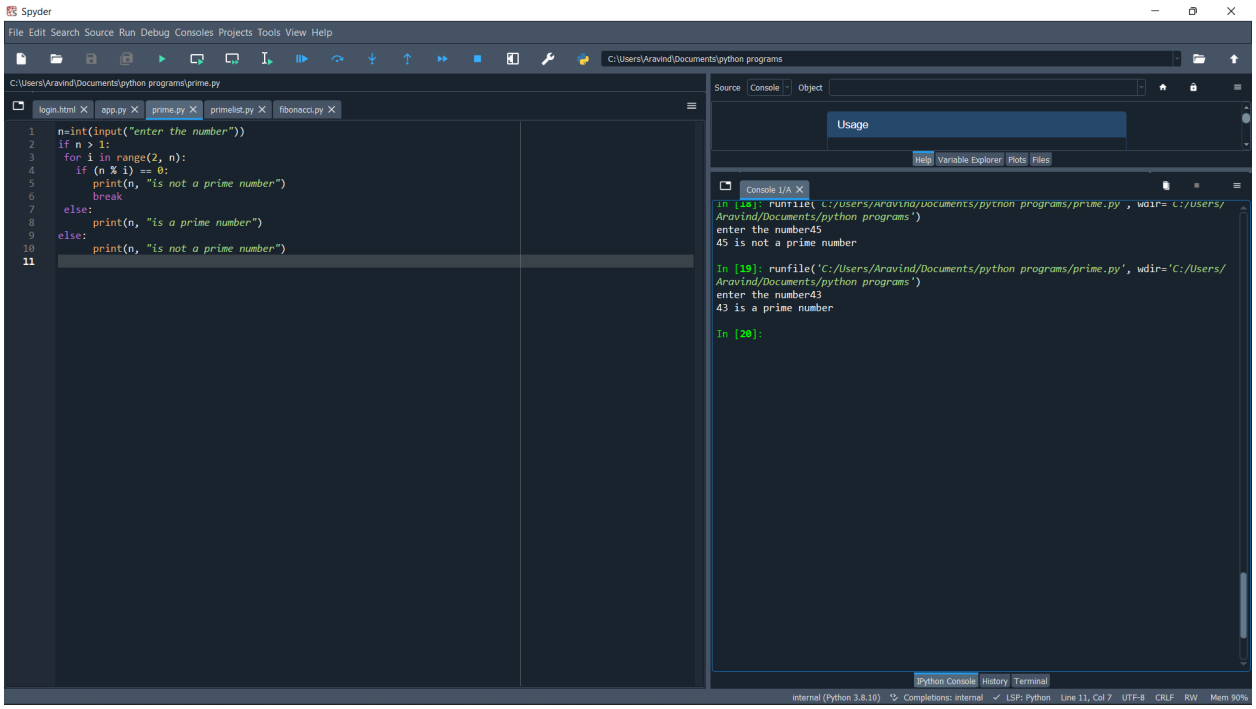
IBM ASSIGNMENT 1

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:

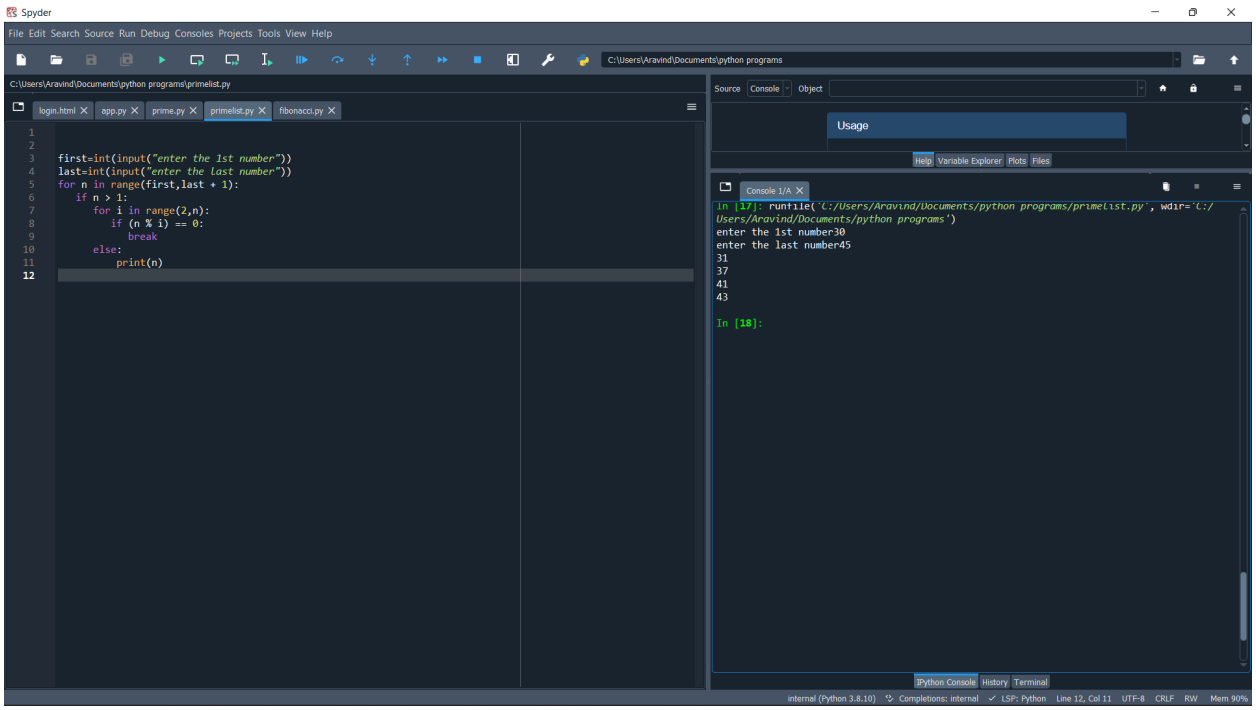


3.Write a python program to display prime number series up to given number

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:



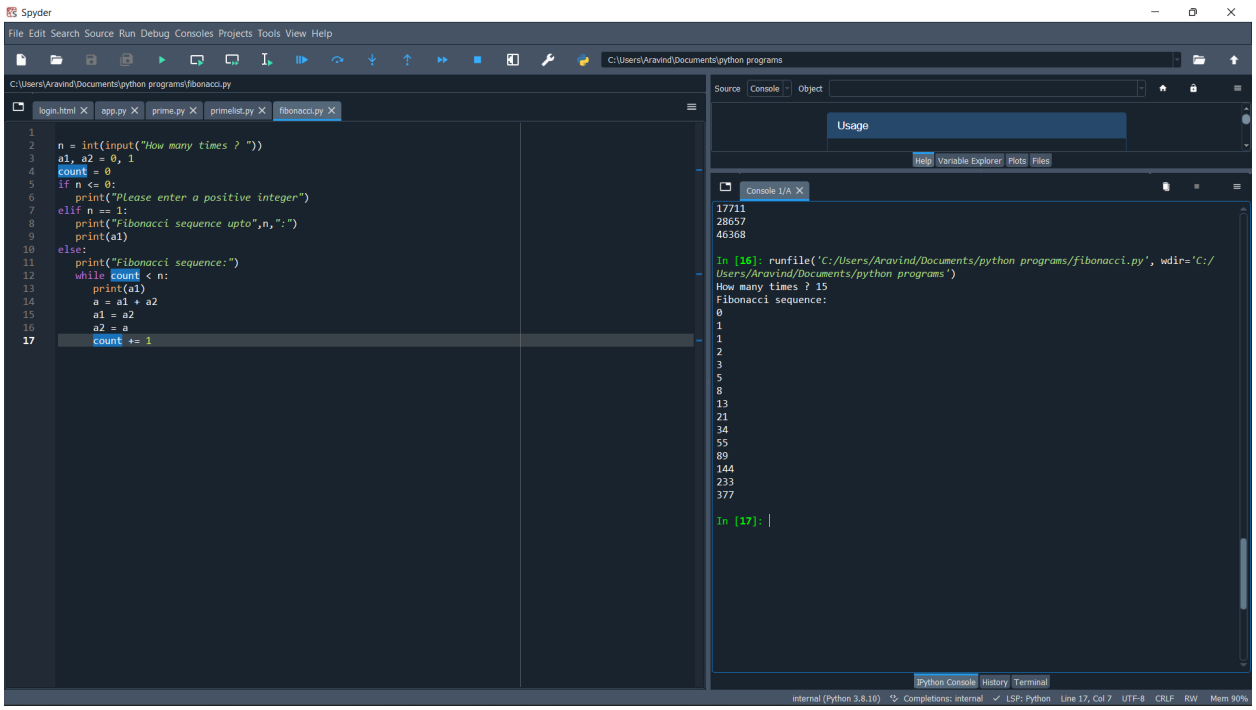
4.Write a python program to generate fibonacci series

Program:

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

```
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: