Assignment 1

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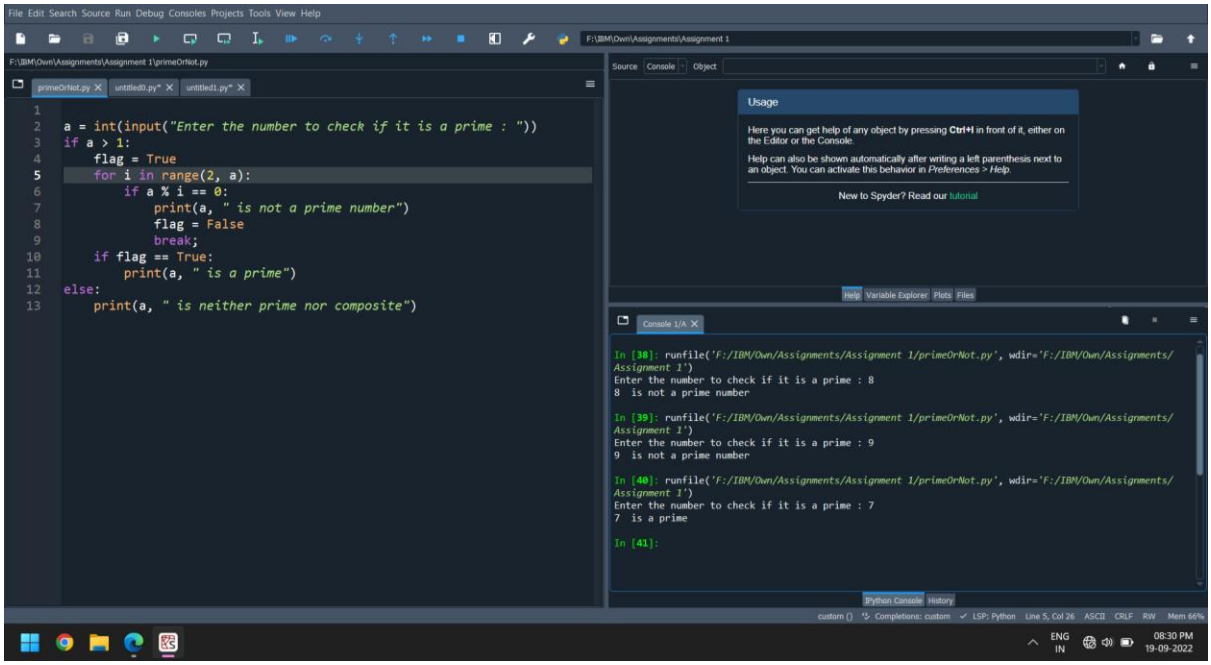
1. Check the given number prime or not

Code:

```
a = int(input("Enter the number to check if it is a prime : "))
if a > 1:
   flag = True
   print(a)
   for i in range(2, a):
      print(i)
      if a % i == 0:
         print(a, " is not a prime number")
         flag = False
         break;
   if flag == True:
      print(a, " is a prime")
else:
   print(a, " is neither prime nor composite")
```

Output:

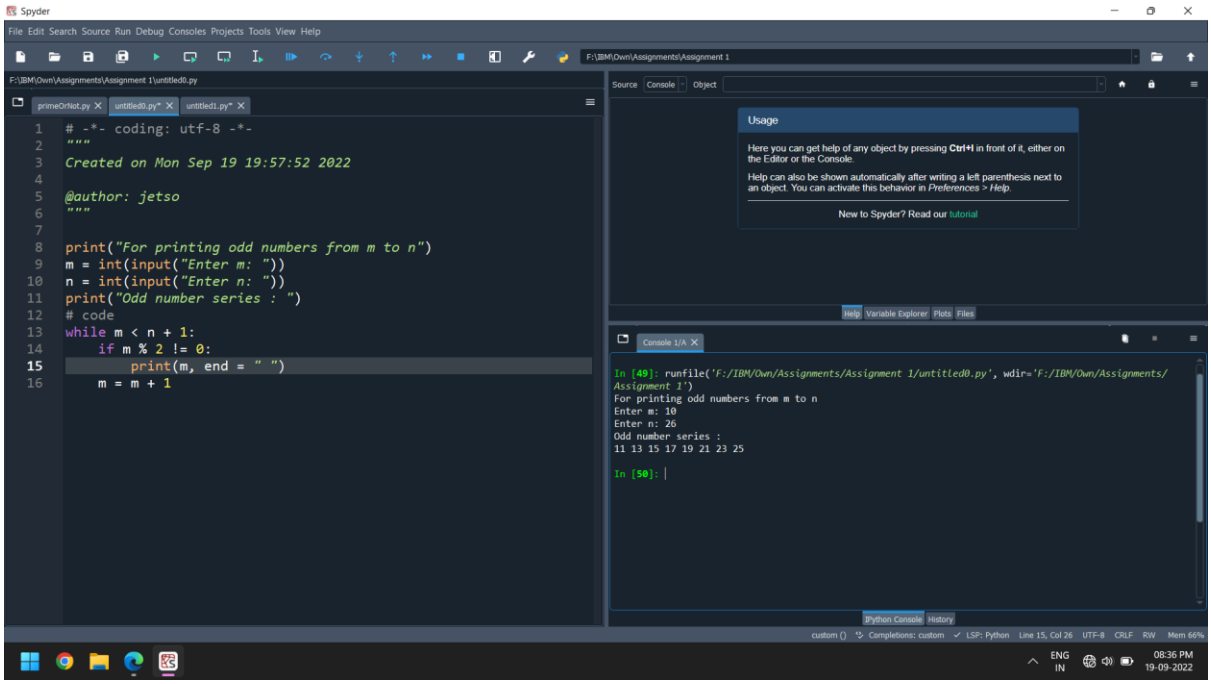


2. Generate odd numbers from m to n using while loop

Code:

```
"""

Created on Mon Sep 19 19:57:52 2022

@author: jetso

"""

print("For printing odd numbers from m to n")

m = int(input("Enter m: "))

n = int(input("Enter n: "))

print("Odd number series : ")

while m < n + 1:

    if m % 2 != 0:

        print(m, end = " ")

    m = m + 1
```

Output:



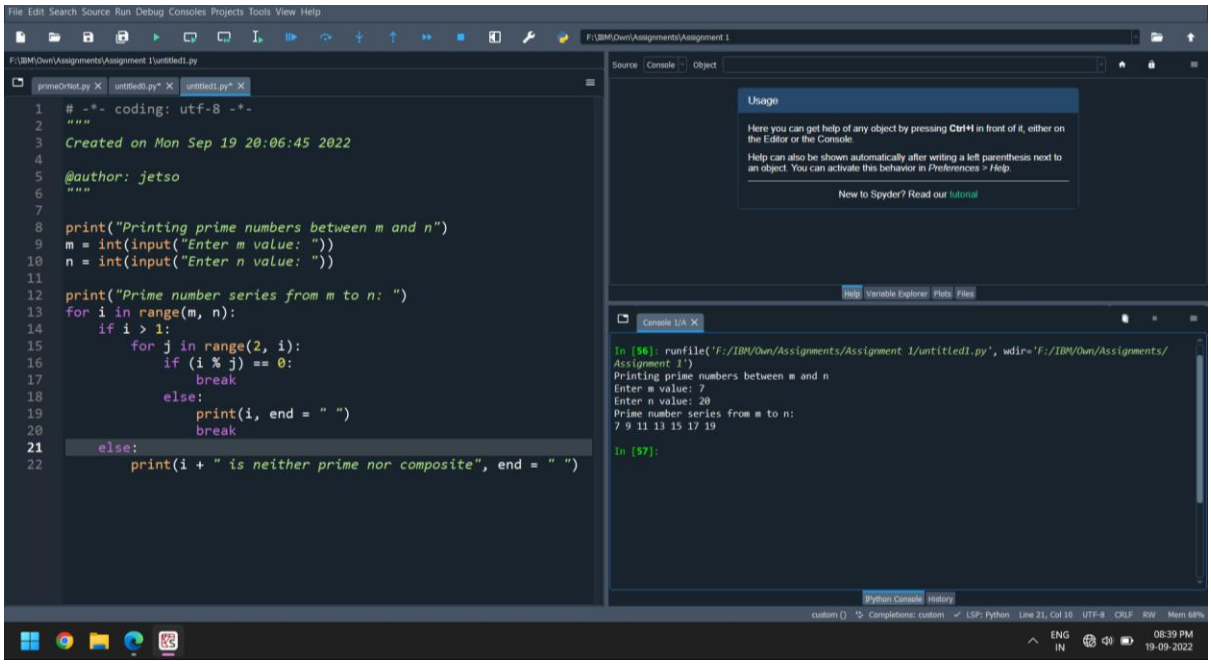
3. Display prime number series upto given number

Code:

```
"""

Created on Mon Sep 19 20:06:45 2022

"""

print("Printing prime numbers between m and n")

m = int(input("Enter m value: "))

n = int(input("Enter n value: "))

print("Prime number series from m to n: ")

for i in range(m, n):

   if i > 1:

      for j in range(2, i):

         if (i % j) == 0:

            break

         else:
```

```
            print(i, end = " ")
            break
    else:
        print(i + " is neither prime nor composite", end = " ")
```

Output:



4. Generate Fibonacci series

Code:

```
n = int(input("Enter N: "))
print("Fibonacci series for given number: ")
if n == 1:
    print("0")
elif n == 2:
    print("0 1")
elif n > 0:
    a = 0
    b = 1
    print("0 1", end = " ")
    for i in range(n-2):
        fib = a + b
        print(fib, end = " ")
```

```
        a = b
        b = fib
else:
    print("N should be greater than 0")
```

Output: