

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;
```

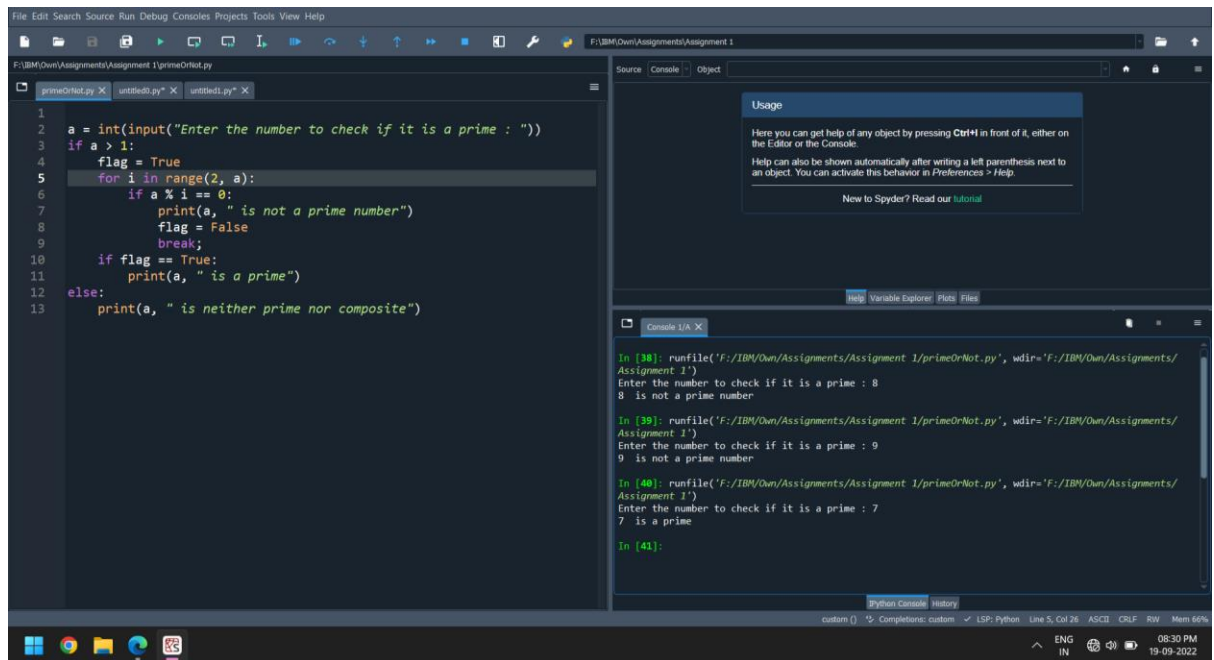
```
    if flag == True:
```

```
        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 : ")
```

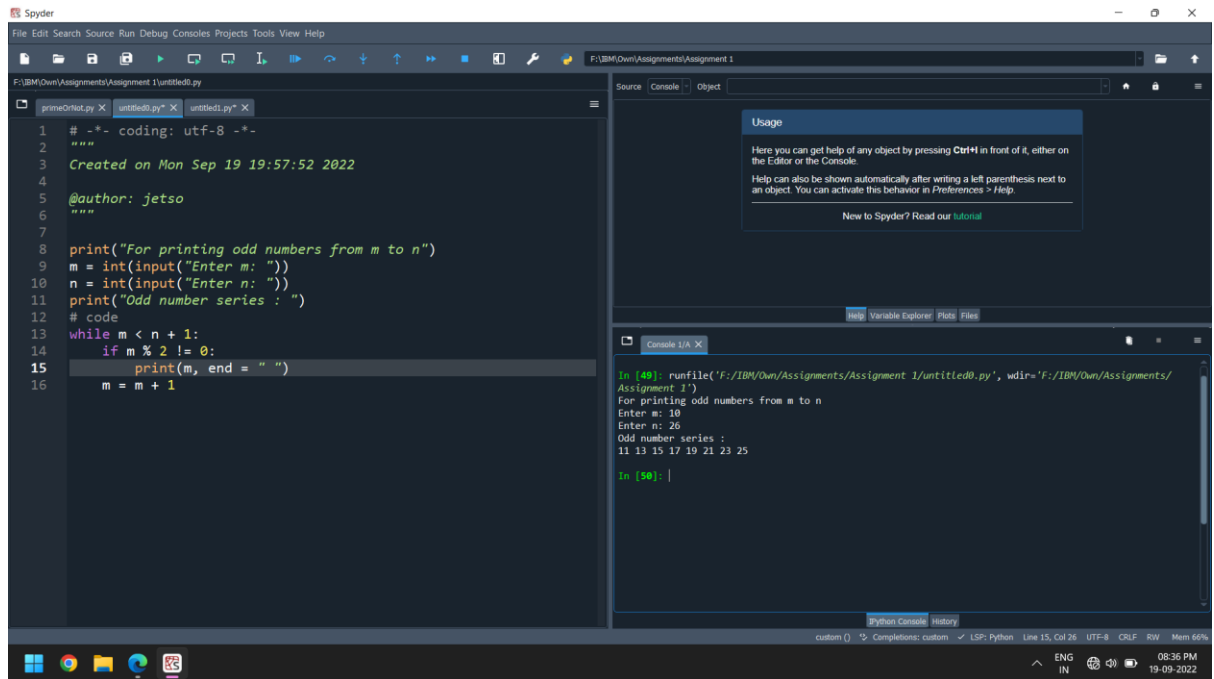
```
while m < n + 1:
```

```
    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 = " ")

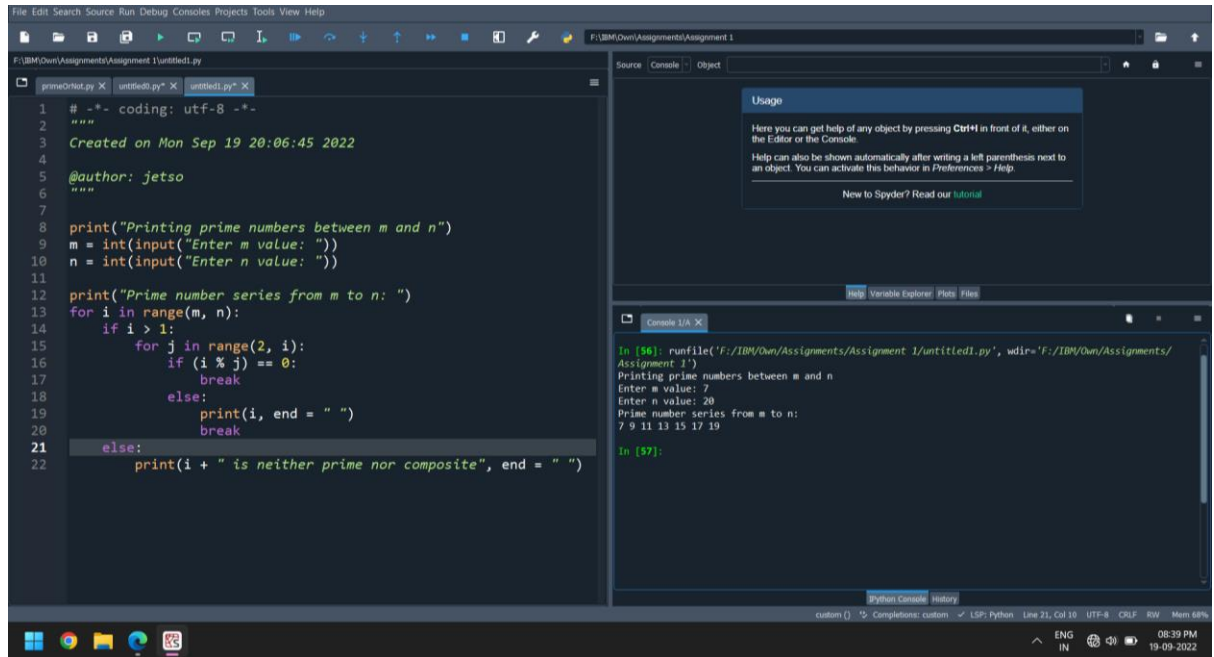
        break

    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 = " ")

```

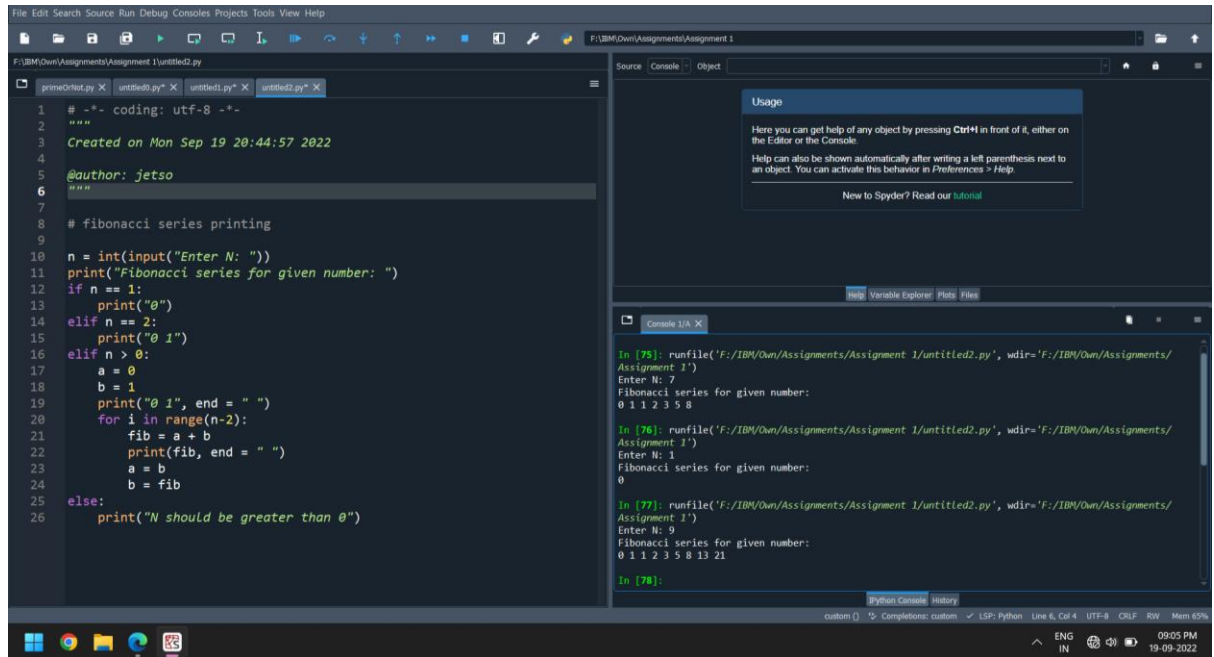
a = b

b = fib

else:

print("N should be greater than 0")

Output:



The screenshot displays the Spyder Python IDE interface. The main editor window on the left contains a Python script for calculating the Fibonacci series. The script includes a docstring, a function definition, and a main execution block. The console window on the right shows the output of the script for three different input values: 7, 1, and 9. The output for each input shows the Fibonacci series for that number. The status bar at the bottom indicates the current file is 'untitled2.py' and the interpreter is 'Python 3.10.4'.

```
1 # -*- coding: utf-8 -*-
2 """
3 Created on Mon Sep 19 20:44:57 2022
4
5 @author: jetso
6
7
8 # fibonacci series printing
9
10 n = int(input("Enter N: "))
11 print("Fibonacci series for given number: ")
12 if n == 1:
13     print("0")
14 elif n == 2:
15     print("0 1")
16 elif n > 0:
17     a = 0
18     b = 1
19     print("0 1", end = " ")
20     for i in range(n-2):
21         fib = a + b
22         print(fib, end = " ")
23         a = b
24         b = fib
25 else:
26     print("N should be greater than 0")
```

Console 1/A X

```
In [75]: runfile('F:/IBM/Own/Assignments/Assignment 1/untitled2.py', wdir='F:/IBM/Own/Assignments/Assignment 1')
Enter N: 7
Fibonacci series for given number:
0 1 1 2 3 5 8

In [76]: runfile('F:/IBM/Own/Assignments/Assignment 1/untitled2.py', wdir='F:/IBM/Own/Assignments/Assignment 1')
Enter N: 1
Fibonacci series for given number:
0

In [77]: runfile('F:/IBM/Own/Assignments/Assignment 1/untitled2.py', wdir='F:/IBM/Own/Assignments/Assignment 1')
Enter N: 9
Fibonacci series for given number:
0 1 1 2 3 5 8 13 21

In [78]:
```

Python Console History

custom | Completions: custom | LSP: Python | Line 6, Col 4 | UTF-8 | CRLF | RW | Mem 65%

ENG IN 09:05 PM 19-09-2022