ASSIGNMENT – 1

TEAM ID	PNT2022TMID33820
PROJECT NAME	PERSONAL EXPENSE TRACKER APPLICATION
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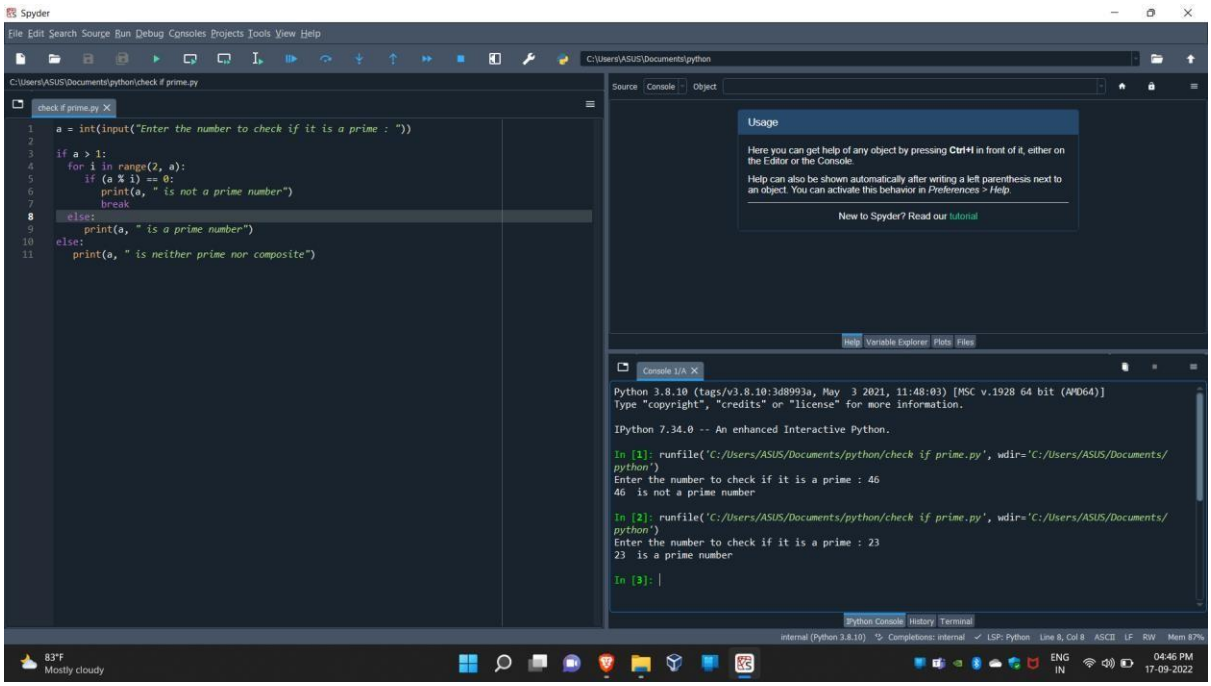
1.Check if prime or not:

Program:

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

Output:

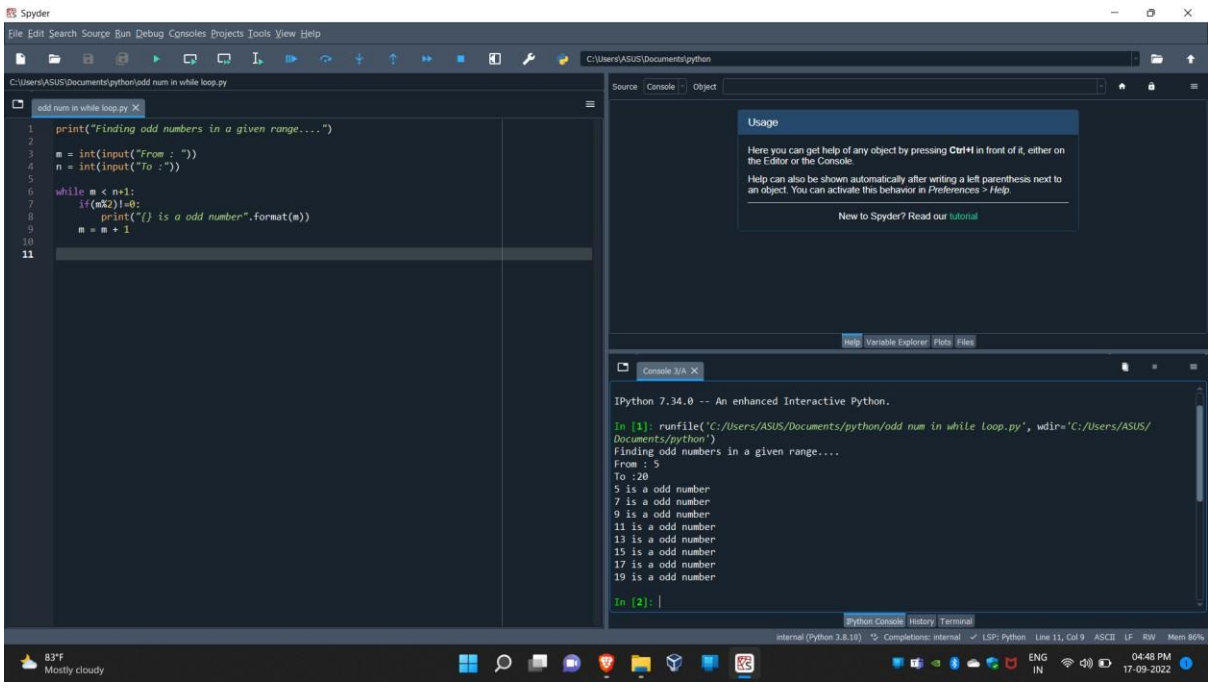

Spyder
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\ASUS\Documents\python
C:\Users\ASUS\Documents\python\check if prime.py
check if prime.py
a = int(input("Enter the number to check if it is a prime : "))
if a > 1:
for i in range(2, a):
if (a % i) == 0:
print(a, " is not a prime number")
break
else:
print(a, " is a prime number")
else:
print(a, " is neither prime nor composite")
Source Console Object
Usage
Here you can get help of any object by pressing Ctrl+I in front of it, either on the Editor or the Console.
Help can also be shown automatically after writing a left parenthesis next to an object. You can activate this behavior in Preferences > Help.
New to Spyder? Read our tutorial
Help Variable Explorer Plots Files
Console 1/A
Python 3.8.10 (tags/v3.8.10:3d8993a, May 3 2021, 11:48:03) [MSC v.1928 64 bit (AMD64)]
Type "copyright", "credits" or "license" for more information.
IPython 7.34.0 -- An enhanced Interactive Python.
In [1]: runfile('C:/Users/ASUS/Documents/python/check if prime.py', wdir='C:/Users/ASUS/Documents/python')
Enter the number to check if it is a prime : 46
46 is not a prime number
In [2]: runfile('C:/Users/ASUS/Documents/python/check if prime.py', wdir='C:/Users/ASUS/Documents/python')
Enter the number to check if it is a prime : 23
23 is a prime number
In [3]:
IPython Console History Terminal
internal (Python 3.8.10) Completions: internal LSP: Python Line 8, Col 8 ASCII LF RW Mem 87%
83°F
Mostly cloudy
ENG
IN
04:46 PM
17-09-2022

2.Generate odd number from m to n using while loop:

Program:

```
print("Finding odd numbers in a given range....")
m = int(input("From : "))
n = int(input("To :"))
while m < n+1:
    if(m%2)!=0:
        print("{} is a odd number".format(m))
    m = m + 1
```

Output:

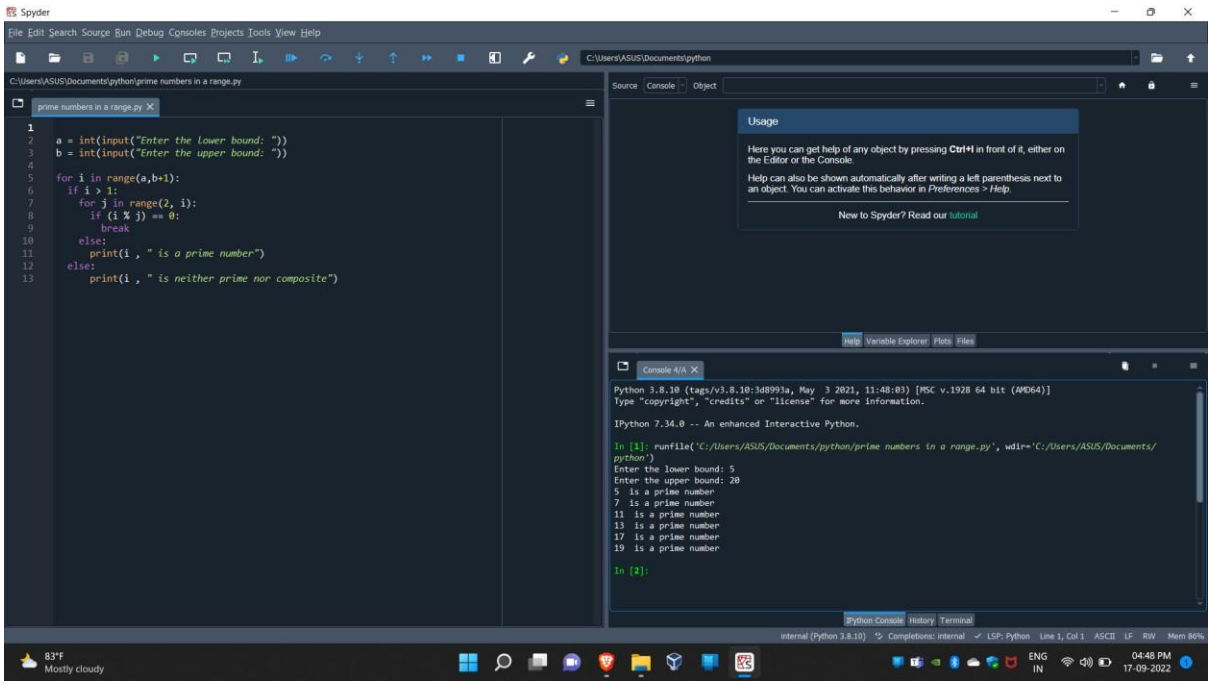


3.Display prime number series upto given number:

Program:

```
a = int(input("Enter the lower bound: "))
b = int(input("Enter the upper bound: "))
for i in range(a,b+1):
  if i > 1:
    for j in range(2, i):
      if (i % j) == 0:
        break
    else:
      print(i , " is a prime number")
  else:
      print(i , " is neither prime nor composite")
```

Output:



4.Generate Fibonacci Series:

Program:

```
a = 0
b = 1
n = int(input("Enter the range of fibonacci numbers you wish to find : "))
print(a)
print(b)
for i in range(0,n-2):
    fib = a + b
    print(fib)
    a = b
    b = fib
    i = i + 1
```

Output: