

ASSIGNMENT – 1

TEAM ID	PNT2022TMID27400
PROJECT NAME	PERSONAL EXPENSE TRACKER APPLICATION
NAME	MONISHWAR C
ROLL NO	311019205030

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
```

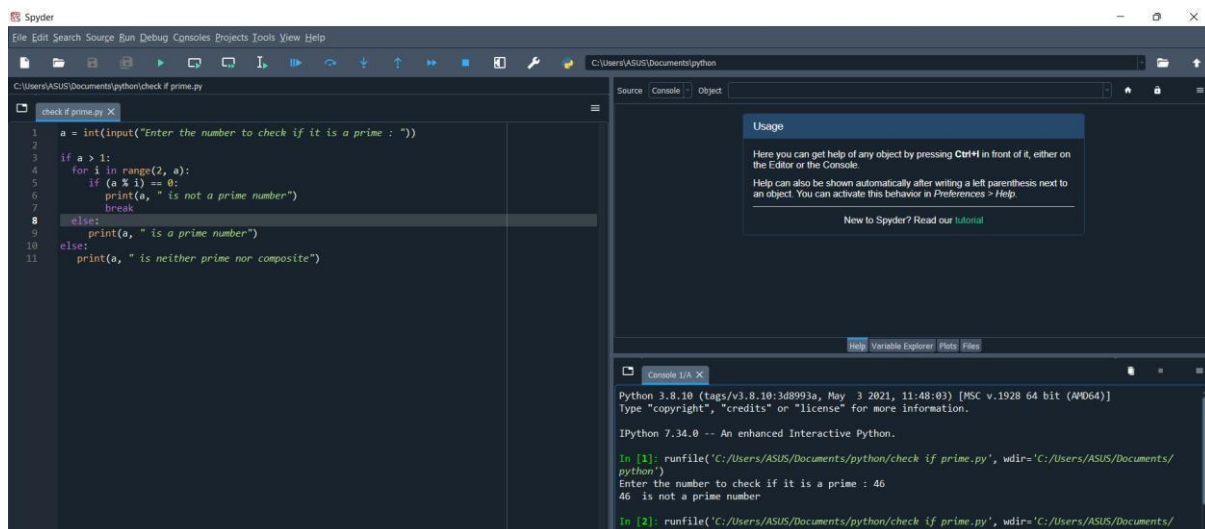
```
else:
```

```
    print(a, " is a prime number")
```

```
else:
```

```
    print(a, " is neither prime nor composite")
```

Output:



```
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\ASUS\Documents\python\check if prime.py
check if prime.py
1 a = int(input("Enter the number to check if it is a prime : "))
2
3 if a > 1:
4     for i in range(2, a):
5         if (a % i) == 0:
6             print(a, " is not a prime number")
7             break
8 else:
9     print(a, " is a prime number")
10 else:
11     print(a, " is neither prime nor composite")

Source Console Object
Usage
Here you can get help of any object by pressing Ctrl+H 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 X
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')
```

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 :"))

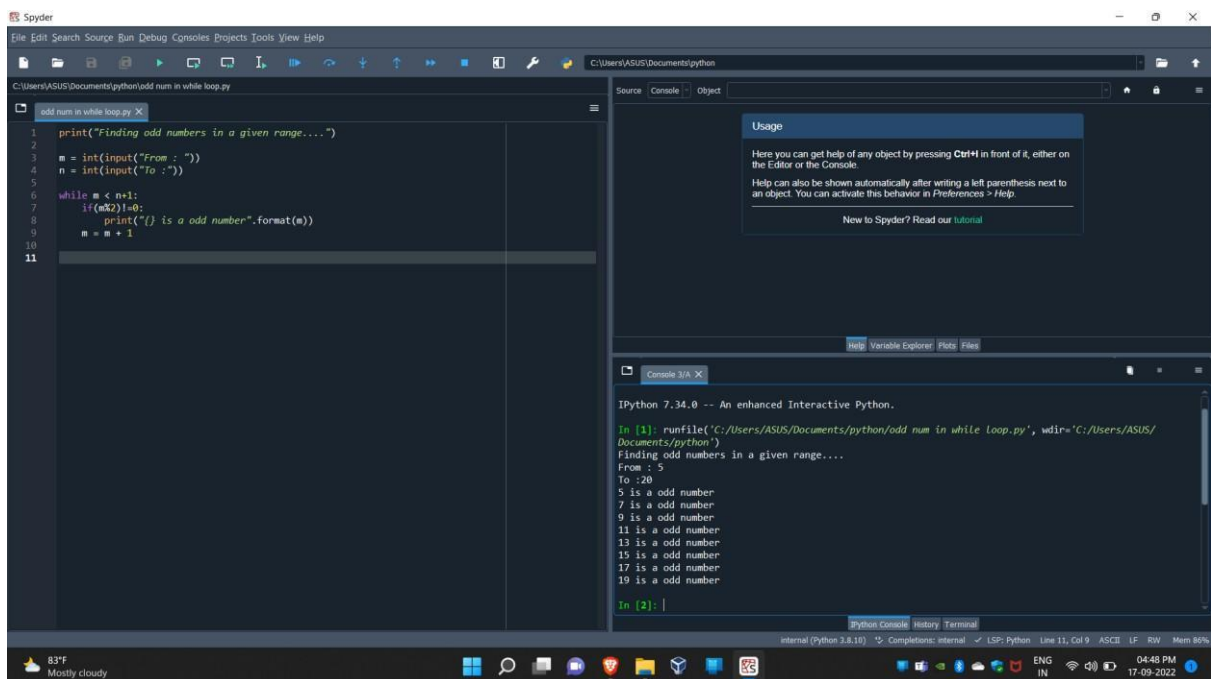
while m < n+1:

    if(m%2)!=0:

        print("{} is a odd number".format(m))

    m = m + 1
```

Output:

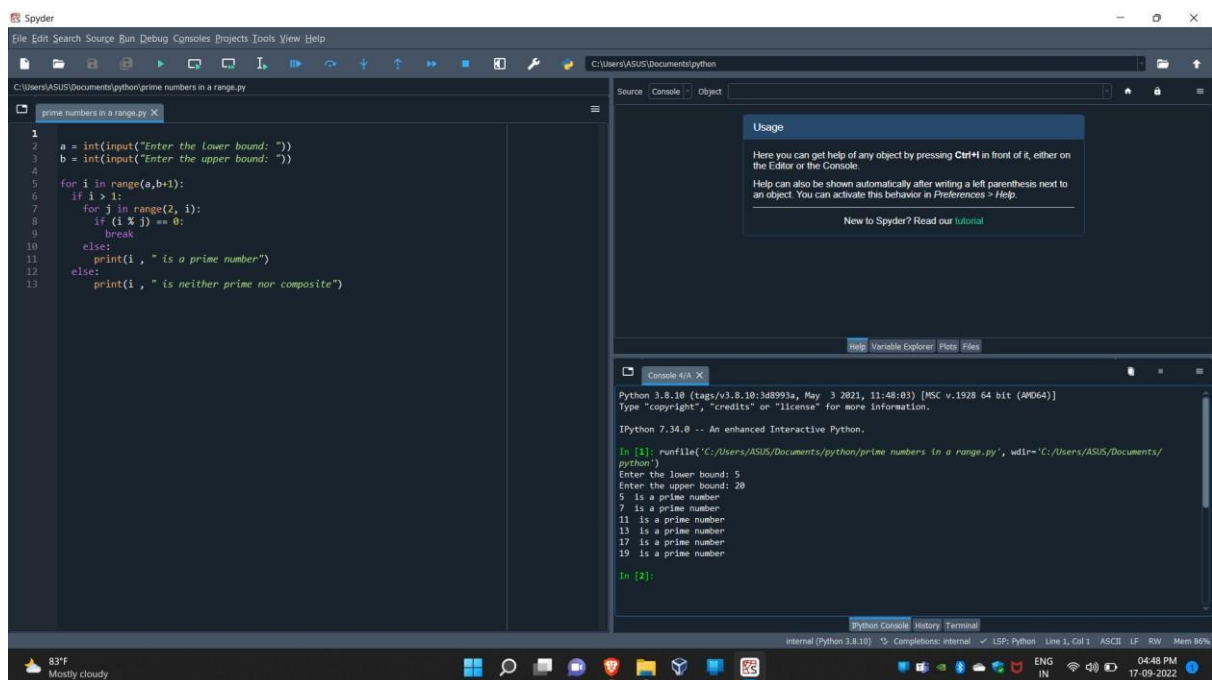


3.Display prime number series upto given number:

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:

The screenshot shows the Spyder Python IDE interface. The left pane displays the code for generating the Fibonacci series. The right pane shows the console output, which includes a usage message and the execution results for the program. The console output shows the input '10' and the resulting Fibonacci sequence: 0, 1, 1, 2, 3, 5, 8, 13, 21, 34.

```
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\ASUS\Documents\python\Fibonacci.py
1 a = 0
2 b = 1
3
4 n = int(input("Enter the range of fibonacci numbers you wish to find : "))
5
6 print(a)
7 print(b)
8
9 for i in range(0,n-2):
10     fib = a + b
11     print(fib)
12     a = b
13     b = fib
14     i = i + 1
15

Source Console Object
Usage
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Type "copyright", "credits" or "license()" for more information.
IPython 7.34.0 -- An enhanced Interactive Python.

In [3]: runfile('C:/Users/ASUS/Documents/python/Fibonacci.py', wdir='C:/Users/ASUS/Documents/python')
Enter the range of fibonacci numbers you wish to find : 10
0
1
1
2
3
5
8
13
21
34

In [2]:
```