

ASSIGNMENT – 1

TEAM ID	PNT2022TMID27400
PROJECT NAME	PERSONAL EXPENSE TRACKER APPLICATION
NAME	ASHIK HAMEED S
ROLL NO	311019205008

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
```

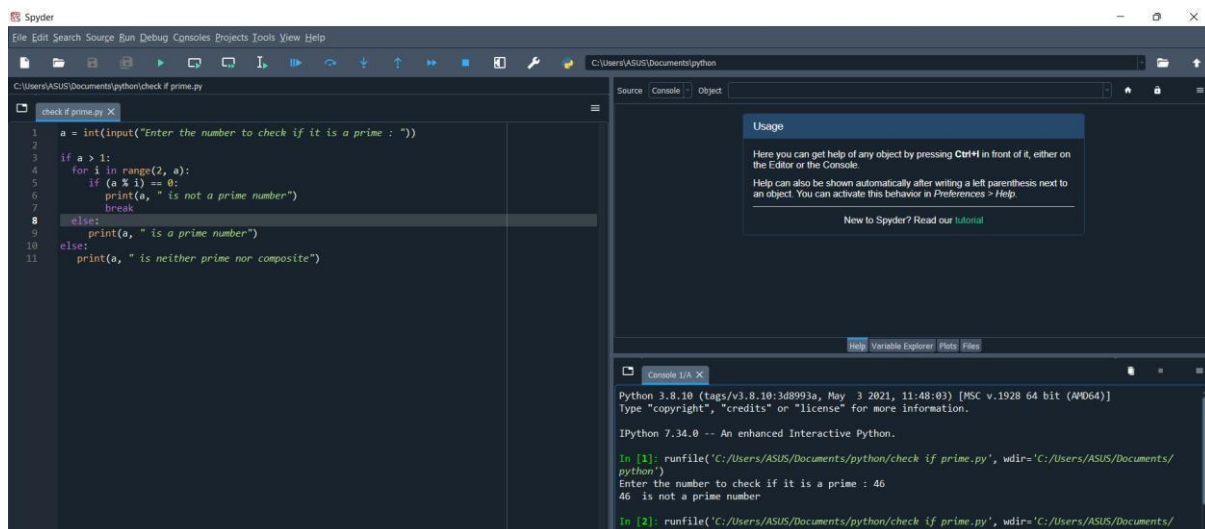
```
    else:
```

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

```
else:
```

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

Output:



The screenshot shows the Spyder Python IDE interface. The left pane displays the code for checking if a number is prime. The right pane shows the console output. The code is as follows:

```
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
11 else:
12     print(a, " is neither prime nor composite")
```

The console output shows the execution of the code. It prompts the user to enter a number, and the user enters 46. The output is "46 is not a prime number".

```
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 :"))

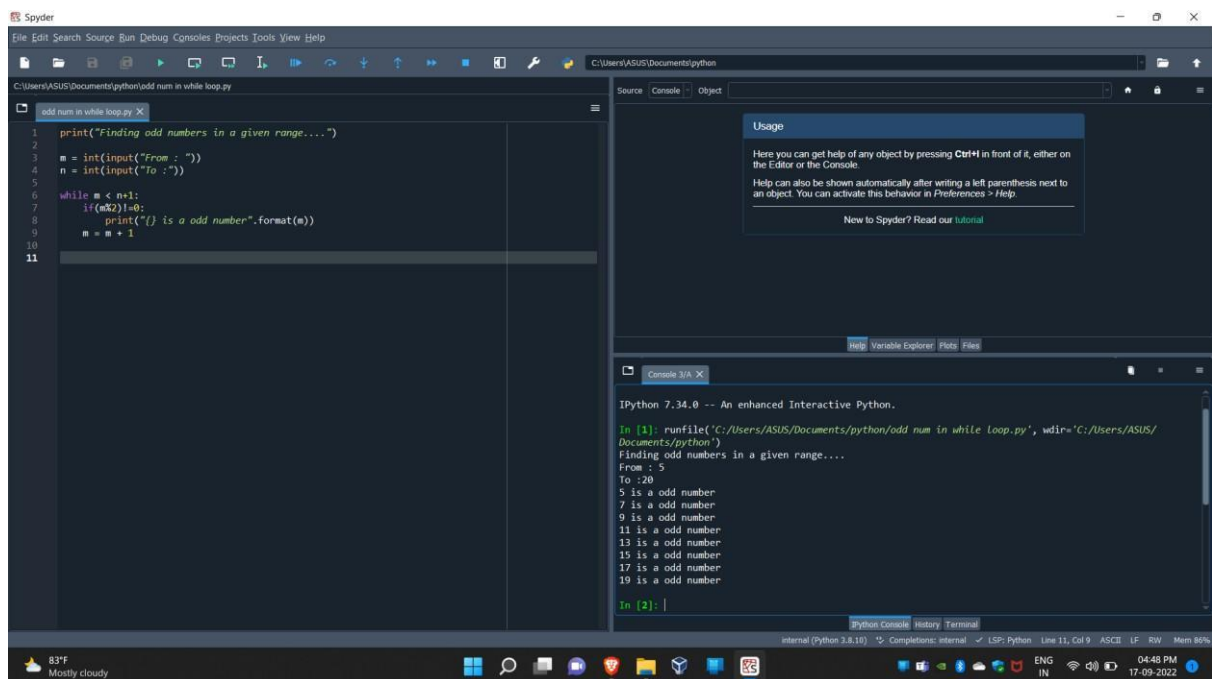
while m < n+1:

    if(m%2)!=0:

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

    m = m + 1
```

Output:

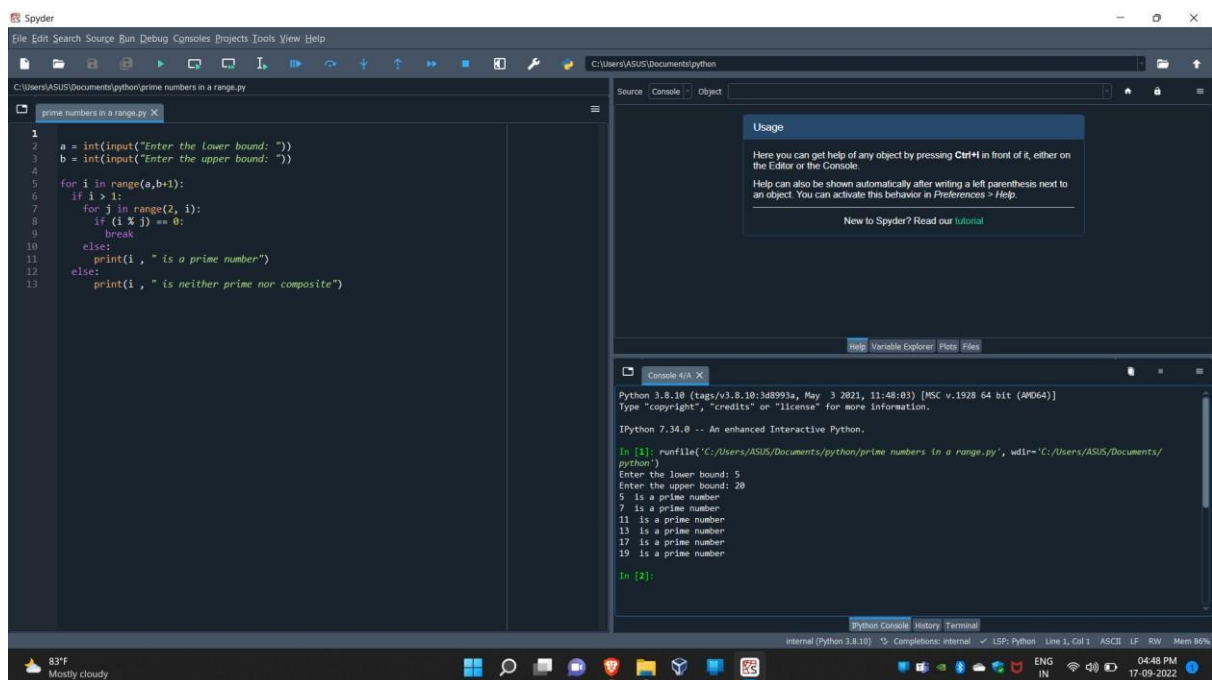


3.Display prime number series upto given number:

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:

