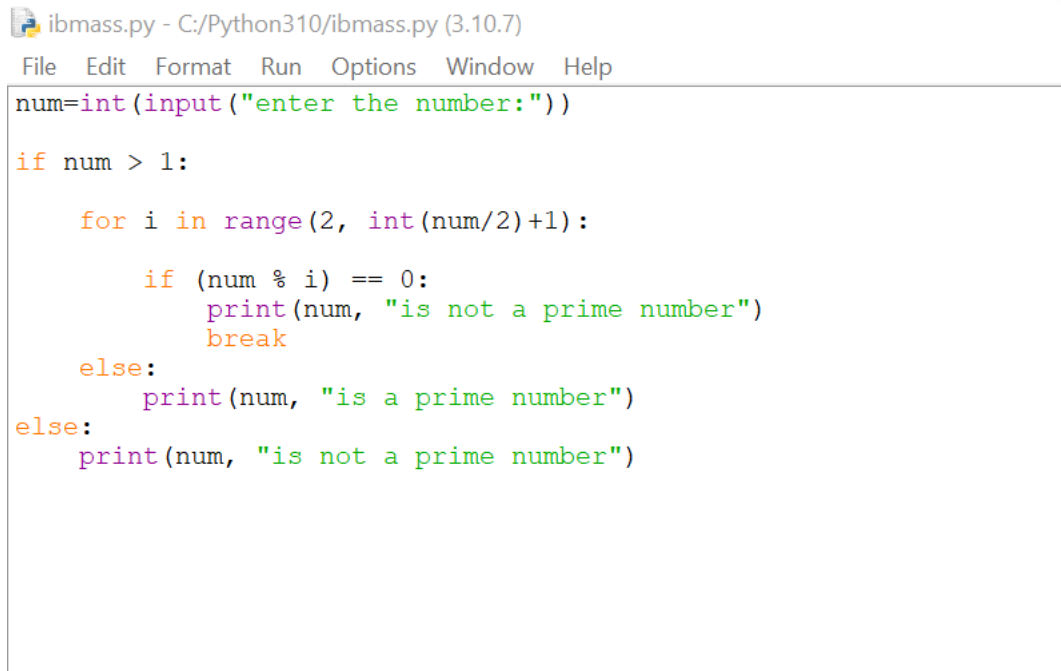# Assignment

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Batch no: - B2A4E-08
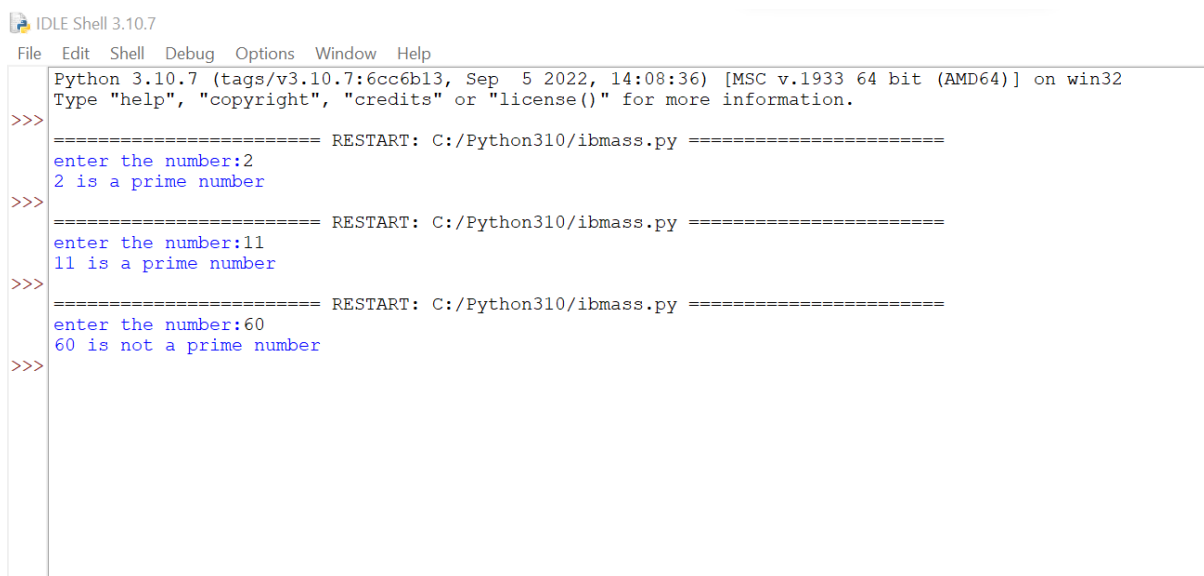
Program 1:

Write a python program to test a given number is prime or not.

```
ibmass.py - C:/Python310/ibmass.py (3.10.7)
File  Edit  Format  Run  Options  Window  Help

num=int(input("enter the number:"))

if num > 1:

    for i in range(2, int(num/2)+1):

        if (num % i) == 0:
            print(num, "is not a prime number")
            break
    else:
        print(num, "is a prime number")
else:
    print(num, "is not a prime number")
```

OUTPUT:

```
IDLE Shell 3.10.7
File  Edit  Shell  Debug  Options  Window  Help
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep  5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
====================== RESTART: C:/Python310/ibmass.py ======================
enter the number:2
2 is a prime number
>>>
====================== RESTART: C:/Python310/ibmass.py ======================
enter the number:11
11 is a prime number
>>>
====================== RESTART: C:/Python310/ibmass.py ======================
enter the number:60
60 is not a prime number
>>>
```

Program 2:

Write a program to generate odd numbers from m to n using while loop

oddoreven.py - C:/Python310/oddoreven.py (3.10.7)

File   Edit   Format   Run   Options   Window   Help

```python
start=int(input("enter the start number :"))
end=int(input("enter the start number :"))
while start<=end:

    if start%2!=0:

        print(start,end="")
    start+=1
```

OUTPUT:

IDLE Shell 3.10.7

File   Edit   Shell   Debug   Options   Window   Help

```
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep  5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===================== RESTART: C:/Python310/oddoreven.py =====================
enter the start number :1
enter the start number :10
13579
>>>
```

Program 3:

Write a Python program to display prime number series up to given number.

primenum.py - C:/Python310/primenum.py (3.10.7)

File   Edit   Format   Run   Options   Window   Help

```python
start = int(input("Enter the start num : "))
end = int(input("Enter the min num : "))
for n in range(start,end + 1):
    if n > 1:
        for i in range(2,n):
            if (n % i) == 0:
                break
        else:
            print(n)
```

OUTPUT:

```
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep  5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
======================= RESTART: C:/Python310/primenum.py =======================
Enter the start num : 1
Enter the min num : 20
2
3
5
7
11
13
17
19
>>>
```

Program 4:

Write a Python program to generate Fibonacci series.

```python
num = int(input("enter the number:"))
n1, n2 = 0, 1
print("Fibonacci Series:", n1, n2, end=" ")
for i in range(2, num):
    n3 = n1 + n2
    n1 = n2
    n2 = n3
    print(n3, end=" ")

print()
```

OUTPUT:

```
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep  5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
======================= RESTART: C:/Python310/fib.py =======================
enter the number:10
Fibonacci Series: 0 1 1 2 3 5 8 13 21 34
>>>
```