

# Assignment

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Batch no: - B2A4E-08

## Program 1:

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

```
1   num=int(input("enter the number:"))
2
3   ▼ if num > 1:
4
5   ▼       for i in range(2, int(num/2)+1):
6
7   ▼           if (num % i) == 0:
8                   print(num, "is not a prime number")
9                   break
10  ▼       else:
11              print(num, "is a prime number")
12  ▼ else:
13      print(num, "is not a prime number")
14
```

OUTPUT:

```
Python 3.7.6 (default, Jan 8 2020, 20:23:39) [MSC v.1916 64 bit (AMD64)]
Type "copyright", "credits" or "license" for more information.

IPython 7.12.0 -- An enhanced Interactive Python.

In [1]: runfile('C:/Users/shrut/.spyder-py3/temp.py', wdir='C:/Users/shrut/.spyder-py3')

enter the number:4
4 is not a prime number

In [2]: runfile('C:/Users/shrut/.spyder-py3/temp.py', wdir='C:/Users/shrut/.spyder-py3')

enter the number:3
3 is a prime number

In [3]: runfile('C:/Users/shrut/.spyder-py3/temp.py', wdir='C:/Users/shrut/.spyder-py3')

enter the number:10
10 is not a prime number
```

### Program 2:

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

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

    if start%2!=0:

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

OUTPUT:

```
Python 3.7.6 (default, Jan 8 2020, 20:23:39) [MSC v.1916 64 bit (AMD64)]
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IPython 7.12.0 -- An enhanced Interactive Python.

In [1]: runfile('C:/Users/shrut/.spyder-py3/temp.py', wdir='C:/Users/shrut/.spyder-py3')

enter the start number :3

enter the end number :10
3579
```

### Program 3:

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

```
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 3.7.6 (default, Jan 8 2020, 20:23:39) [MSC v.1916 64 bit (AMD64)]
Type "copyright", "credits" or "license" for more information.

IPython 7.12.0 -- An enhanced Interactive Python.

In [1]: runfile('C:/Users/shrut/.spyder-py3/temp.py', wdir='C:/Users/shrut/.spyder-py3')

Enter the start num : 1

Enter the min num : 15
2
3
5
7
11
13
```

#### Program 4:

Write a Python program to generate Fibonacci series.

```
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 3.7.6 (default, Jan 8 2020, 20:23:39) [MSC v.1916 64 bit (AMD64)]
Type "copyright", "credits" or "license" for more information.

IPython 7.12.0 -- An enhanced Interactive Python.

In [1]: runfile('C:/Users/shrut/.spyder-py3/temp.py', wdir='C:/Users/shrut/.spyder-py3')

enter the number:6
Fibonacci Series: 0 1 1 2 3 5
```