Programming Assignment_3

1. Write a Python Program to Check if a Number is Positive, Negative or Zero?

```
In [3]: n=int(input("Enter any number: "))
    if(n>0):
        print("Number is POSITIVE")
    elif(n<0):
        print("Number is NEGATIVE")
    else:
        print("Number is ZERO")</pre>
Enter any number0
Number is ZERO
```

2. Write a Python Program to Check if a Number is Odd or Even?

```
In [7]: n=int(input("Enter any number: "))
    if(n%2==0):
        print("Number is EVEN")
    else:
        print("Number is ODD")

Enter any number0
Number is EVEN
```

3. Write a Python Program to Check Leap Year?

```
In [19]: n=int(input("Enter any year: "))
    if(n%400==0):
        print("LEAP YEAR")
    elif(n%100==0):
        print("NOT A LEAP YEAR")
    elif(n%4==0):
        print("LEAP YEAR")
    else:
        print("NOT A LEAP YEAR")

Enter any year: 2104
    LEAP YEAR
```

4. Write a Python Program to Check Prime Number?

```
else:
   print("NOT PRIME")

Enter any Number: 27
NOT PRIME
```

5. Write a Python Program to Print all Prime Numbers in an Interval of 1-10000?

```
In [65]: for i in range(2,10001):
    for j in range(2,int(i/2)+1):
        if(i%j==0):
            break;
    else:
        print(i)
```

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