

PROGRAMMING ASSIGNMENT - 3

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

```
n = 5
if n > 0:
    print("Positive")
elif n < 0:
    print("Negative")
else:
    print("Zero")
```

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

```
Num = 10
If Num % 2 == 0:
    print("Even")
else:
    print("Odd")
```

3. Write a Python Program to Check Leap Year?

```
Y = 2012
If ( y % 4 == 0 and y % 100 != 0 ) or y % 400 == 0:
    print("Leap Year")
else:
    print("It is not Leap Year")
```

4. Write a Python Program to Check Prime Number?

```
num = 237
if num > 1:
    for i in range(2,num):
        if num % i == 0:
            print("Not Prime")
    else:
        print("Prime")
```

```
else:  
    print("Not Prime")
```

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

```
for num in range(1,10001):  
    if num > 1:  
        for i in range(2,num):  
            if num % i == 0:  
                break  
        else:  
            print(num)
```