# **Assignment 3**

In [11]: def check even(a):

In [37]:

**if** a % 2 == 0:

def check\_leap(year):

2000 is a leap year

**if** (year % 4) == 0:

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

```
In [6]: def check_num(a):
    if a > 0:
        print("This is Positive")
    elif a == 0:
        print("This is Zero")
    else:
        print("This is Negative Number")

In [8]: check_num(1)
    This is Positive

In [9]: check_num(-1)
    This is Negative Number

In [10]: check_num(0)
    This is Zero
```

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

```
print("This is a Even Number")

else:
    print("This is an Odd Number")

In [12]: check_even(2)

This is a Even Number
```

```
In [13]: check_even(33)
This is an Odd Number
```

#### 3. Write a Python Program to Check Leap Year?

```
if (year % 100) == 0:
    if (year % 400) == 0:
        print("{0} is a leap year".format(year))
    else:
        print("{0} is not a leap year".format(year))

else:
        print("{0} is a leap year".format(year))

else:
        print("{0} is not a leap year".format(year))
```

## 4. Write a Python Program to Check Prime Number?

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

```
In [ ]:

In [ ]:
```