

# PYTHON LAB 4

1. **Write a Python program that takes a number as input and prints "Even" if the number is even and "Odd" if it's odd.**

```
n=int(input("Enter your Number")) #-----> Taking number as input
if(n%2==0):
    print(n, "is Even Number") #-----> print if true
else:
    print(n, "is Odd Number") #-----> print if false
```

**#<----- Output ----->**

'''

Enter your Number35

35 Odd Number

Enter your Number34

34 Even Number

'''

2. **Create a Python program that checks whether a person is eligible to vote ( 18 years or older) based on their age.**

```
Age=int ( input("Enter Your age:")) #-----> Taking Age as input

if(Age>=18):
    print("You Are Eligible For Vote.") #-----> print if true
else:
    print("Your Are Not Eligible For Vote.") #-----> print if false
```

**#<----- Output ----->**

'''

Enter Your age:21

You Are Eligible For Vote.

Enter Your age:17

Your Are Not Eligible For Vote.

'''

3. **Write a Python program that determines if a given year is a leap year or not.**

```
n=int(input("Enter a year: "))    #-----> Taking Year as input

if(n%4==0)and (n%100!=0):    #-----> conditions
    print(n,"is a Leap year.")    #-----> print if true
elif(n%400) and (n%100==0):    #-----> conditions
    print(n,"is a Leap year.")    #-----> print if true
else:
    print(n,"is not a Leap year.")    #-----> print if all condition is false
```

**#<----- Output ----->**

'''

Enter your year: 2025  
2025 is not a Leap year.

Enter your year: 2024  
2024 is a Leap year.

'''

4. **Create a Python program that checks if a user-given number is positive, negative, or zero.**

```
p=int(input("Enter the Number:"))    #-----> Taking number as input
if(p>0):
    print("Number is Positive")    #-----> print if true
elif(p<0):
    print("Number is Negative")    #-----> print if true
else:
    print("Entered Number is zero")    #-----> print if above condition is false
```

**#<----- Output ----->**

'''

Enter the Number:5

Number is Positive

Enter the Number:-6

Number is Negative

Enter the Number:0

Entered Number is zero

'''

- 5. Write a Python program that determines the largest of three numbers entered by the user.**

```
x=int (input ("Enter First Number:"))    #-----> Taking first number as input
y=int (input ("Enter Second Number:"))  #-----> Taking second number as input
z=int (input ("Enter Third Number:"))   #-----> Taking third number as input
if(x>y):    #-----> Using if statement
    if(x>z):    #----→ Nested if else
        print ("x is Greater")    #-----> print if true
    else:
        print ("z is Greater")    #-----> print if false
else:
    if(y>z):
        print ("y is Greater")    #-----> print if true
    else:
        print("z is Greater")    #-----> print if false
```

#<----- Output ----->

Enter First Number:4

Enter Second Number:5

Enter Third Number:6

z is Greater

'''