Python Lab = 5

Q1. Declare a div() function with two parameters. Then call the function and pass two numbers and display their division.

Sol.

```
def divison():
    a=int(input("Enter first number:"))
    b=int(input("Enter second number:"))
    c=a/b
    print("Divison\n",c)
divison()
```

```
>>> = RESTART: C:/Users/narut/Desktop/New folder/Assignment 5.py
Enter first number:40
Enter second number:2
Divison
 20.0
>>>
```

Q2. Declare a square() function with one parameter.Then call the function and pass one number and display the square of that number .

Sol.

```
age = int(input("Enter age :"))
if age >= 18:
    print("Eligible for Voting")
else:
    print("Not Eligible for Voting")
```

```
>>>
========== RESTART: C:/Users/narut/Desktop/New folder/Assignment 5.py ==========
Enter age :16
Not Eligible for Voting
>>>
```

Q3. Write a Python program that determines if a given year is a leap year or not.

```
n=int(input("Enter year:"))
if(n%4==0 and n%100!=0 or n%400==0):
    print("The year is a leap year!")
else:
    print("The year isn't a leap year!")
```

```
>>>
========== RESTART: C:/Users/narut/Desktop/New folder/Assignment 5.py ==========
Enter year:2004
The year is a leap year!
>>>
```

Q4. Create a Python program that checks if a user-given number is positive, negative, or zero.

Sol.

```
n = int(input("Enter a number: "))
if n > 0:
   print("Positive number")
elif n == 0:
   print("Zero")
else:
   print("Negative number")
```

```
>>>
========== RESTART: C:/Users/narut/Desktop/New folder/Assignment 5.py ==========
Enter a number: -10
Negative number
>>>
```

Q5. Write a Python program that determines the largest of three numbers entered by the user.

```
n1 = int(input("Enter a number: "))

n2 = int(input("Enter a number: "))

n3 =int(input("Enter a number: "))

if (n1 >= n2) and (n1 >= n3):

  largest = n1

elif (n2 >= n1) and (n2 >= n3):

  largest = n2

else:

  largest = n3


print("The largest number is", largest)
```

```
>>>
========== RESTART: C:/Users/narut/Desktop/New folder/Assignment 5.py ==========
Enter a number: 10
Enter a number: 20
Enter a number: 50
The largest number is 50
>>>
```