Python Lab

Q1. Write a Python program that takes a number as input and prints "Even" if the number is even and "Odd" if it's odd.

Sol.

```python
n = int(input("Enter a number: "))

if ( % 2) == 0:

  print(" Even",)

else:

  print("Odd",n)
```

```
>>>
    = RESTART: C:/Users/narut/AppData/Local/Programs/Python/Python311/Assigment4.py
    Enter a number: 9
    Odd 9
>>>
```

Q2. Create a Python program that checks whether a person is eligible to vote (18 years or older) based on their age.

Sol.

```python
age = int(input("Enter age :"))

if age >= 18:

   print("Eligible for Voting")

else:

   print("Not Eligible for Voting")
```

```
>>>
    = RESTART: C:/Users/narut/AppData/Local/Programs/Python/Python311/Assigment4.py
    Enter age :17
    Not Eligible for Voting!
>>>
```

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

```python
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/AppData/Local/Programs/Python/Python311/Assigment4.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.

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

```
    Type "help", "copyright", "credits" or "license()" for more information.
>>
    = RESTART: C:/Users/narut/AppData/Local/Programs/Python/Python311/Assigment4.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/AppData/Local/Programs/Python/Python311/Assigment4.py
   Enter a number: 10
   Enter a number: 20
   Enter a number: 30
   The largest number is 30
>>>
```