Assignment - 6

Q1. ''' To check whether a given number is positive or non-positive '''

```
num = int(input("Enter a number"))
if num > 0:
    print("Number is positive")
else:
    print("Number is non-positive")
```

Q2. ''' To check whether a given number is divisible by 5 or not. '''

```
num1 = int(input("Enter a number"))
if num1 % 5 == 0:
    print("Number is divisible by 5")
else:
    print("Number is not divisible by 5")
```

Q3. ''' To check whether a given number is even or odd. '''

```
num = int(input("Enter a number = "))
if num % 2 == 0:
    print("Number is even")
else:
    print("Number is odd")
```

Q4: ''' To print two given word in dictionary order '''

```
print("Enter two words")
word_1, word_2 = input(), input()
if word_1 > word_2:
    print(word_2, word_1)
else:
    print(word_1, word_2)
```

Q4. """ To print greater between two number. Print number only once even if the number are the same."""

```
print ("Enter two numbers")
a, b = input
a, b = int(input()), int(input())
if a>b:
    print(a)
else:
    print(b)
```

Q6. """ To check whether a given number is a three digit number or not"""

```
print ("Enter two number")
num = int(input())
print ("Number is 3-digit" if 99<num<1000 else "Number is not 3-digit")
```

Q7. """ To check wether a given number is positive, negative or zero.

```
num = int(input("Enter a number"))
if num>0:
    print ("positive")
elif num<0:
    print ("negative")
else:
    print ("zero")
```

Q8. """ To check a given quadratic equation has two real & distinct roots, real & equal roots, or imaginary roots."""

```
print ("Enter a, b and c)
a, b, c = int(input()), int(input()), int(input())
d = b**2 - 4*a*c
if d>0:
    print ("real and distinct")
elif d==0:
    print ("real and equal")
else:
    print ("imaginary")
```

Q9. """ To check whether a given year is a leap year or not. """

```
print ("Enter a number of Year")
year = int(input())
if year % 400 == 0:
    print ("Leap year")
elif year % 100 != 0 and year % 4 == 0:
    print ("Leap Year")
else:
    print ("non Leap year")
```

Q10. """ To print greater among three number. Print number only once even of ~~days in it.~~ are the same""":

```
print ("Enter three numbers")
num1, num2, num3 = int(input()), int(input()), int(input())
if num1 > num2:
    if num1 > num3:
        print ("Num1 is greater=", num1)
    else:
        print ("Num3 is greater=", num3)
elif num2 > num3:
    print ("Num2 is greater", Num2)
else:
    print ("Num3 is greater", num3)
```

Q11. """ To take month value in numeric format and display the number of days in it.

```
Print ("Enter month number")
month = int(input())
if month in (1,3,5,7,8,10,12):
    print ("31 days")
elif month in (4,6,9,11):
    print ("30 days")
elif month == 2:
    print ("28 & 29 days")
else:
    print ("Please select a valid month")
```

Q12: "To accept one complex number from the user and display the greater number between real part and imaginary part."

```
x = complex(input("Enter a complex number"))
print (x.real if x.real > x.imag else x.image)
```