Assignment - 6

1. Write a python script to check whether a given number is positive or non-positive.

```python
x=int(input("Enter any number: "))
if x>0:
    print("Positive number")
else:
    print("Non-positive")
```

2. Write a python script to check whether a given number is divisible by 5 or not.

```python
x=int(input("Enter any number: "))
if x%5==0:
    print("Divisible by 5")
else:
    print("Not-Divisible by 5")
```

3. Write a python script to check whether a given number is even or odd.

```python
x=int(input("Enter any number: "))
if x%2==0:
    print("Even Number")
else:
    print("Odd Number")
```

4. Write a python script to print greater between two numbers. Print number only once even if the numbers are the same.

```python
x=int(input("Enter first number: "))
y=int(input("Enter second number: "))
if x>y:
    print("Greater number is: ",x)
elif x<y:
    print("Greater number is: ",y)
else:
    print("Numbers are equal")
```

5. Write a python script to print two given words in dictionary order.

```python
x=(input("Enter first number: "))
y=(input("Enter second number: "))
print(x>y)
```

6. Write a python script to check whether a given number is a three digit number or not.

```python
x = int(input("Enter any number: "))
if x>99 and x<1000:
    print("Number is 3 digit number.")
else:
    print("Number is not a 3 digit number.")
```

7. Write a python script to check whether a given number is positive, negative or zero

```python
x=int(input("Enter first number: "))
if x==0:
    print("Zero")
elif x>0:
    print("Positive number")
elif x<0:
    print("Negative number")
```
.

8. Write a python script to check whether a given quadratic equation has two real &

distinct roots, real & equal roots or imaginary roots.

```python
a=int(input("Coefficient of x2: "))
b=int(input("coefficient of x: "))
c=int(input("Constant value: "))
if b*b-4*a*c>0:
    print("Root are real and distinct")
elif b*b-4*a*c==0:
    print("Root are real and equal")
elif b*b-4*a*c<0:
    print("Imaginary root")
```

9. Write a python script to check whether a given year is a leap year or not.

```python
year=int(input("Enter any year value: "))

if (year % 400 == 0) and (year % 100 == 0):
    print("{0} is a leap year".format(year))

elif (year % 4 ==0) and (year % 100 != 0):
    print("{0} is a leap year".format(year))

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

10. Write a python script to print greater among three numbers. Print number only once even if the numbers are the same.

```python
num1 = int(input("Enter first number: "))
num2 = int(input("Enter second number: "))
num3 = int(input("Enter third number: "))

if (num1 >= num2) and (num1 >= num3):
    largest = num1
elif (num2 >= num1) and (num2 >= num3):
    largest = num2
else:
    largest = num3

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

11. Write a python script to take the month value in numeric format and display the number of days in it.

```python
month=int(input("Enter month number: "))

if (month==1 or month==3 or month==5 or month==7 or month==8
or month==10 or month==12):
```

```
    print("month no ",month, "having 31 days")
elif (month==4 or month==6 or month==9 or month==11):
    print("month no ",month, "having 30 days")
elif month==2:
    print("month no ",month, "having 28 or 29 days")
```

12. Write a python script to accept one complex number from the user and display the greater number between real part and imaginary part.

```
a=int(input("Enter real part: "))
b=int(input("Enter imaginary part: "))
cn = complex(a,b)
print("Complex Number: ",cn)
if(cn.real>cn.imag):
    print("Real part is greater than imaginary")
else:
    print("imaginary part is greater than real")
```