Assignment - 6 Decision Control

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

```
x=int(input("enter the number\n"))
if x>0:
    print("positive")
else:
    print("non-positive")
```

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

```
x=int(input("enter the number\n"))
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.

```
x=int(input("enter the number\n"))
if x%2==0:
    print("even")
else:
    print("odd")
```

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

```
x=int(input("enter 1st number\n"))
y=int(input("enter 2nd number\n"))
if x>y:
    print("%d is greater"%x)
else:
    print("%d is greater"%y)
```

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

```
w1=str(input("enter 1st word\n"))
w2=str(input("enter 2nd  word\n"))
if w1>w2:
    print(w2,w1)
else:
    print(w1,w2)
```

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

```
x=int(input("enter a number\n"))
if x>100<999:
    print("three digit number")
else:
    print("not three digit number")
```

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

```python
x=int(input("enter the number\n"))
if x>0:
    print("positive")
elif x==0:
    print("zero")
else:
    print("negative")
```

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("enter the number\n"))
b=int(input("enter the number\n"))
c=int(input("enter the number\n"))
z=b**2-4*a*c
if z>0:
    print("real & distinct roots")
elif z==0:
    print("real & equal roots")
else:
    print("real & imaginary roots.")
```

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

```python
y=int(input("enter the year"))
if y%100==0:
    if y%400==0:
        print("leap year")
    else:
        print("not leap year")
else:
    if y%4==0:
        print("leap year")
    else:
        print("not leap year")
```

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

```python
x=int(input("enter 1st number\n"))
y=int(input("enter 2nd number\n"))
z=int(input("enter 3rd number\n"))
if x>y:
    if x>z:
        print("greater number",x)
    else:
        print("greater number",z)
else:
    if y>z:
        print("greater number",y)
    else:
        print("greater number",z)
```

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

```python
x=int(input("enter month value in numeric value"))
match x:
    case 1:
        print("total days are 31 in")
    case 2:
        print("total days are 28 in")
    case 3:
        print("total days are 31 in")
    case 4:
        print("total days are 30 in")
    case 5:
        print("total days are 31 in")
    case 6:
        print("total days are 30 in")
    case 7:
        print("total days are 31 in")
    case 8:
        print("total days are 31 in")
    case 9:
        print("total days are 30 in")
    case 10:
        print("total days are 31 in")
    case 11:
        print("total days are 30 in")
    case 12:
        print("total days are 31 in")
    case _:
        print("wrong cohice")
```

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

```python
com=complex(input("enter complex value\n"))
if com.real>com.imag:
    print(com.real,"is greater")
else:
    print(com.imag,"is greater")
```