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

a=int(input("enter a number"))

if a>=0:

print("entered no is positive")

else:

print("enter no is negative")

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

a=int(input("enter a no to check whether divided by 5 or not"))

if a%5==0:

print("no divided by 5")

else:

print("entered no not devided by 5")

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

x=int(input("enter a no"))

if x%2==0:

print("entered no is even")

else:

print("entered no is 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 value of x"))

y=int(input("enter value of y"))

if x>y:

print("x greater")

elif y>x:

print("y greater")

elif x==y:

print(x)

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

a=input("enter first word")

b=input("enter second word")

print((b,a) if a>b else (a,b))

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

x=int(input("enter three digit no"))

print("entered no is 3 digit no" if x//1000==0 else "entered no is more then 3 digit no")

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

x=int(input("enter a no"))

if x>0:

print("entered no is positive")

elif x<0:

print("entered no is negative")

else:

print("enter no is zero")

8. Write a python script to check whether a given quadratic equation has two real & distinct roots, real & equal roots or imaginary roots

**#Discriminant: D = b2 - 4ac**

* D > 0, the roots are real and distinct
* D = 0, the roots are real and equal.
* D < 0, the roots do not exist or the roots are imaginary.

a=int(input("enter value of a"))

b=int(input("enter value of b"))

c=int(input("enter value of c"))

d=b\*\*2-4\*a\*c

if d>0:

print("the roots anre real and distinct")

elif d==0:

print("the roots are real and equal")

else:

print("the roots do not exist or the roots are imaginary")

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

year=int(input("enter a year to check weather this year is leap or not"))

if year%100!=0 or year%400==0 and year%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.

a=int(input("enter a"))

b=int(input("enter b"))

c=int(input("enter c"))

print((("a greater ")if a>c else("c greater")) if a>b else (("b greater") if b>c else ("c greater")))

print(("a and b same") if a==b else ((print("b and c same") if b==c else (("a and c same") if c==a else ("ok")))))

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

x=int(input("enter month value b/w 1 to 12"))

if x in(1,3,5,7,8,10,12):

print("entered month have 31 days")

elif x in (4,6,9,11):

print("enter month have 30 days")

elif x==2:

print("entered month have 28 or 29 days")

else:

print("you entered worng value")

12. Write a python script 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 print(x.imag)