**1)Check Positive or Negative**  
Write a Python program to check whether a number entered by the user is positive, negative, or zero.

**A)**

nt=int(input("entera number:"))

if int>0:

print(f"{int} is a positive number")

else:

if int==0:

print("entered number is zero")

else:

print("entered number is negative")

**2)Even or Odd**  
Write a program to input a number and check whether it is even or odd using an if-else statement.

**A)**

num=int(input('enter a number:'))

if num%2==0:

print(f'{num} is even number')

else:

print(f'{num} is odd number')

**3)Check Leap Year**  
Write a Python program to check whether a given year is a leap year or not.

**A)**

year=int(input("enter the year:"))

if (year%4==0 and year%100 !=0)or year%400==0:

print(f"{year} is a leap year")

else:

print(f'{year}is not a leap year')

**4)Greatest of Two Numbers**  
Write a program that takes two numbers from the user and prints which one is greater.

**A)**

n1=int(input("enter a first number:"))

n2=int(input("enter a second number"))

if n1>n2:

print(f'{n1} is greater number')

else:

print(f'{n2} is greater number')

**5)Voting Eligibility**  
Ask the user for their age. If the age is 18 or more, print “Eligible to vote”, else print “Not eligible”.

**A)**

age=int(input("enter yout birth year:"))

ct=int(input('enter current year:'))

ag=ct-age

if ag>=18:

print("your allowed to vote")

else:

print("ypu are not allowde to vote")

**6)Grade Checker**  
Accept marks from the user and print the grade:

* Marks >= 90 → Grade A   
  75–89 → Grade B   
  60–74 → Grade C   
  40–59 → Grade D   
  Below 40 → Fail

**A)**

mrk=int(input("enter your marks:"))

if mrk>=90:

print("congrats you passed with grade A")

elif mrk>=75 and mrk<=89:

print("congrats you passed with garde B")

elif mrk>=60 and mrk<=74:

print("you passed with grade c")

elif mrk>=40 and mrk<=59:

print("you passed with grade D")

else:

print(f"{mrk} made you fale")

**7)Number Type Checker**  
Ask the user to enter a number. Check:

* + If it is **positive**, check if it’s even or odd.
  + If it’s **negative**, print “Negative number”.
  + If it’s **zero**, print “Zero”.

**A)**

n1=int(input("enter a number:"))

if n1==0:

print(f'{n1} is neighter positive or negative')

elif n1<0:

print(f'{n1} is a negative number')

else:

if n1%2==0:

print(f'{n1} is even number')

else:

print(f"{n1} is odd number")

**8)Simple Calculator**  
Ask the user to input two numbers and an operator (+, -, \*, /). Use if-else to perform the correct operation and show the result.

**A)**

inp1=float(input("enter first number:"))

inp2=float(input("enter second number:"))

print("USE ME FOR SIMPLE CALCULATIONS LIKE +,-,\*,%,/,//")

ch=input("enter your coice:")

if ch=='+':

print(f'addition of {inp1} and {inp2} is',inp1+inp2)

elif ch=='-':

print(f'sub of {inp1} and {inp2} is',inp1-inp2)

elif ch=='\*':

print(f'mul of {inp1} and {inp2} is',inp1\*inp2)

elif ch=='%':

if inp2==0:

print("can not devide something with zero")

else:

print(f'reminder of {inp1} div {inp2} is',inp1%inp2)

elif ch=='/':

if inp2==0:

print("can not devide something with zero")

else:

print(f'float quotient of {inp1} div {inp2} is',inp1/inp2)

elif ch=='//':

if inp2==0:

print("can not devide something with zero")

else:

print(f'reminder of {inp1} div {inp2} is',inp1//inp2)

else:

print("I CANT PERFORM PLEASE SELECT VALID CHOICE")