**Write a Python program to check if a year is a leap year or not.**

year = int(input("Enter a year: "))  
if (year % 4) == 0:  
 if (year % 100) == 0:  
 if (year % 400) == 0:  
 print("{0} is a leap year".format(year))  
 else:  
 print("{0} is not a leap year".format(year))  
 else:  
 print("{0} is a leap year".format(year))  
else:  
 print("{0} is not a leap year".format(year))

**Write a Python program to read a number from the user and print the reversed number.**

n=int(input("Enter number: "))  
rev=0  
while(n>0):  
 dig=n%10  
 rev=rev\*10+dig  
 n=n//10  
print("Reverse of the number:",rev)

**Write a Python program to find the largest of 3 numbers.**

num1 = float(input("Enter first number: "))  
num2 = float(input("Enter second number: "))  
num3 = float(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)

**Write a Python program to check if a number is positive or negative.**

num = float(input("Enter a number: "))  
if num >= 0:  
 if num == 0:  
 print("Zero")  
 else:  
 print("Positive number")  
else:  
 print("Negative number")

**Write a Python program that inputs three numbers and calculates two sums as per this:**

**Sum 1 as the sum of all numbers.**

**Sum 2 as the sum of non-duplicate numbers, if there are duplicates, then ignore them.**

print("enter three nos:")  
num1=int(input("no 1:"))  
num2=int(input("no 2:"))  
num3=int(input("no 3:"))  
sum1=num1+num2+num3  
print("sum of all nos:",sum1)  
if(num1==num2 and num1!=num3):  
 sum2=num1+num3  
elif(num1==num3 and num1!=num2):  
 sum2=num1+num2  
elif(num2==num3 and num2!=num1):  
 sum2=num2+num1  
elif(num1==num2==num3):  
 sum2=num1  
else:  
 sum2=num1+num2+num3  
print("sum of non duplicates:",sum2)

**Write a Python program to check if a number is divisible by another number of not.**

print("enter two nos:")  
  
num1=int(input("no.1:"))  
  
num2=int(input("no.2:"))  
  
if(num2==0):  
  
 print("Divisible not possible")  
  
elif(num1%num2==0):  
  
 print("divisible")  
  
else:  
 print("not divisible")

**Write a Python program to read three numbers and print them in ascending order.**

NumList = []  
  
Number = int(input("Please enter the Total Number of List Elements: "))  
for i in range(1, Number + 1):  
 value = int(input("Please enter the Value of %d Element : " %i))  
 NumList.append(value)  
  
NumList.sort()  
  
print("Element After Sorting List in Ascending Order is : ", NumList)

**Write a Python program to read today’s date from the user and print how many days are there in the current month.**

import datetime  
import calendar  
now = datetime.datetime.now()  
print ("Current date and time : ")  
print (now.strftime("%Y-%m-%d %H:%M:%S"))  
y = int(input("Input the year : "))  
m = int(input("Input the month : "))  
print(calendar.month(y, m))

**Write a Python program to print the table of a number entered by the user.**

n=int(input("Enter the number to print the tables for:"))  
for i in range(1,11):  
 print(n,"x",i,"=",n\*i)

**Write a Python program to print the sum of first n natural numbers, where n is entered by the user.**

n = input("Enter Number to calculate sum:")  
n = int (n)  
sum = 0  
for num in range(0, n+1, 1):  
 sum = sum+num  
print("SUM of first ", n, "numbers is: ", sum )

**Write a Python program to calculate and print the sums of odd and even integers of the first n natural numbers.**

maximum = int(input(" Please Enter the Maximum Value : "))  
even\_total = 0  
odd\_total = 0  
  
for number in range(1, maximum + 1):  
 if(number % 2 == 0):  
 even\_total = even\_total + number  
 else:  
 odd\_total = odd\_total + number  
  
print("The Sum of Even Numbers from 1 to {0} = {1}".format(number, even\_total))  
print("The Sum of Odd Numbers from 1 to {0} = {1}".format(number, odd\_total))

**Write a Python program to print the following pattern:**

**Example: n=5**

**\* \* \* \* \***

**\* \* \* \***

**\* \* \***

**\* \***

**\***

print("Program to print half pyramid: ")  
  
rows = input("Enter number of rows ")  
rows = int (rows)  
  
for i in range (rows,0,-1):  
 for j in range(0, i + 1):  
 print("\*", end=' ')  
  
 print("\r")