1. **Write a program that asks the user for a number n and prints the sum of the numbers 1 to n**
2. k=0  
   sum1=0  
   number=int(input("Enter the number N "))  
     
   for i in range(0,number):  
    k=k+1  
    sum1=sum1+k  
   print(sum1)

**Write a program that prints a multiplication table for numbers up to 12.**

number=int(input("Enter the number N "))  
for i in range(1,13):  
 print(f"{i} x {number} = ",number\*i)

**Write a function that returns the largest element in a list.**

def largest\_number():  
 my\_list=[1,24,5,6,7,8,9,10]  
 print(max(my\_list))  
largest\_number()

**Write a function that computes the running total of a list.**

def list\_sum():  
 my\_list=[1,24,5,6,7,8,9,10]  
 print(sum(my\_list))  
list\_sum()

**Write a function that checks whether an element occurs in a list.**

thislist= ["cricket","hockey","football","wightlifting"]  
element=str(input("insert element"))  
if element in thislist:  
 print(f"yes the {element} is present")  
else:  
 print("element is not present")

def is\_leap(year):

    leap = False

    if(year%4)==0:

        if(year%100)==0:

            if(year%400)==0:

               leap=True

            else:

                leap=False

        else:

            leap=True

    else:

        leap=False

    return leap

year = int(input())

print(is\_leap(year))