**Program 1 :**

def isPerfect(n) :

    sum = 0

    for i in range(1,n) :

        if(n % i == 0) :

            sum += i

    if(sum == n) : return True

    return False

n = int(input("Enter the number to be checked : "))

if(isPerfect(n)) : print("Perfect number")

else : print("Not a perfect number")

**Program 2 :**

def isPangram(s) :

    s=s.lower()

    alphabetSet = "abcdefghijklmnopqrstuvwxyz"

    for i in alphabetSet :

        if(i not in s) : return False

    return True

s = str(input("Enter the string to be checked :"))

if(isPangram(s)) : print('"'+s+'" is pangram')

else : print('"'+s+'" is not a pangram')

**Program 3 :**

def add(\*nums) :

    sum = 0

    for i in range(len(nums)):

        sum += int(nums[i])

    return sum

def sub(\*nums) :

    diff = nums[0]

    for i in range(1,len(nums)):

        diff -= int(nums[i])

    return diff

def multiply(\*nums) :

    multi = 1

    for i in range(len(nums)):

        multi \*= int(nums[i])

    return multi

def div(\*nums) :

    div = nums[0]

    for i in range(1,len(nums)):

        div /= int(nums[i])

    return div

print("1. Add \t2. Sub \t3. Multiply  4. Divide")

choice = int(input("Enter your choice : "))

nums = str(input("Enter the numbers : "))

parm = list(map(int,nums.split()))

if(choice == 1) :

    print("Result of addition : " +str(add(\*parm)))

elif(choice == 2) :

    print("Result of subtraction : " +str(sub(\*parm)))

elif(choice == 3) :

    print("Result of multiplication : " +str(multiply(\*parm)))

elif(choice == 4) :

     print("Result of division : " +str(div(\*parm)))

**Program 4 :**

def fact(n) :

    if(n==1) : return 1

    return (n\*fact(n-1))

n = int(input("Enter a number : "))

print("Factorial = "+ str(fact(n)))

**Program 5 :**

def square(n) : return n\*n

def cube(n) : return n\*n\*n

def incBy4(func,n) :

    return func(n) + 4

def multiBy2(func,n) :

    return func(n) \* 4

print(incBy4(square, 3))

print(multiBy2(square, 3))

print(incBy4(cube, 3))

print(multiBy2(cube, 3))

**Output :**

