Homework 2 – Model 3

Problem1

Write a program that concatenates two lists. Ex: [a,b,c], [1,2,3] → [a,b,c,1,2,3]

Problem2

Write a function that takes an array of positive integers and displays an error message to re-enter the array, if there is any zero or negative element. Then, your function computes for each element x of the array, the summation of odd elements from 1 to x.

Example of input/output:
Enter your array: [1 5 2 -8]
Error, the array contains non-positive elements.

Enter your array: [1 5 2]
Summation of element:
1
Summation of element:
9
Summation of element:
1

Problem3

Write a program to print the perfect cubic numbers from 1 to N where N is a number, which user entered.

Note: A natural number n is a perfect cubic if it can be calculated as n=m*m for some other natural number m, e.g. 1,8,27,64.

Example of input/output:
Enter N: 100
The perfect numbers are:
1,8,27,64