# LAB :- 5 (LIST)

**1.Sum of list**
Given an array compute the sum of all elements.

**Input :-**
**A = [1,2,3,4,5]**
**Output:**
**15**

**2.Copy the Array**

You are given a constant array A and an integer B.

You are required to return another array where Arr[i] = A[i] + B.

**Input :-**
**A = [1,2,3,2,1]**
**B = 3**

**Output:**
**[4,5,6,5,4]**

**3.Max and Min of an Array**
Take input an array A of size N and write a program to print maximum and minimum elements of the input array .Here N  represents the length of the array .
**Input :-**
**N = 5**
**A = 1 2 3 4 5**
**Output:**
**5 1**

**4.Search Element**
You are given array A and an integer B. You have to tell whether B is present in array A or not.
**Input:-**
**N = 4**
**A = 1 5 9 1**
**5**
**Output:**
**1**

## 5.Negative Integers
Write a program to print all negative numbers from input array A of size N.
**Input:-**
**N = 5**
**A = 1 -5 2 -8 -4**


**Output:**
**-5**
**-8**
**-4**


## 6.Even Odd Elements
For array A, you have to find the value of absolute difference between the counts of even and odd elements in the array.
**Input:**
1 2 3 4
**Output:**
0

## 7.Separate Odd Even
You are given an integer array A.
You have to print the odd and even elements of array A in 2 separate lines.

**Input:**
1 2 3 4 5
**Output:**
1 3 5
2 4

## 8.Square of Array
You are provided with an integer array A. Return another array B of size same as that of A such that $B[i] = A[i]^2$

**Input:**
A=[2, 6, 8, 1]
**Output:**
[4, 36, 64, 1]

### 9.Cube of Array

You are provided with an integer array A. Return another array B of size same as that of A such that $B[i] = A[i]^3$
**Input:**
A=[2, 6, 8, 1]
**Output:**
[8, 216, 512, 1]

### 10.Reverse
Given an array A, Find the reverse of it.
**Input:**
A = [3, 5, 1, 2, 1, 2]
**Output:**
[2, 1, 2, 1, 5, 3]