## Lab Task 1

1. Write a program that reads n numbers from the user and stores them in an array. The program reads a number between 0-100 and shows the number at the corresponding index number.

For example, N=4, array [4] =  $\{50, 65, 34, 67\}$ , if the user enters 65, your program should print array [2].

- 2. Write a program that reads n numbers from the user and stores them in an array. Now perform the following operation using the switch statement.
  - i. Prints the even numbers in reverse order.
  - ii. Read a number from the user, and print "YES" if the number exists in the array. Otherwise print "NO"
- 3. Write a program that reads n numbers from the user, but does not allow the user to enter duplicates. This means that if a number has been entered already, the program will not accept it as input again and instead ask the user to enter a different number.
- 4. Given two integer arrays of same size, "arr[]" and "index[]", reorder elements in "arr[]" according to given index array. It is not allowed to given array arr's length.

Input: arr[] = [10, 11, 12]; index[] = [1, 0, 2];Output: arr[] = [11, 10, 12] index[] = [0, 1, 2]Input: arr[] = [50, 40, 70, 60, 90] index[] = [3, 0, 4, 1, 2]Output: arr[] = [40, 60, 90, 50, 70]index[] = [0, 1, 2, 3, 4]

