1.Writing a program in Java implementing the linear search algorithm

```
package OnlinePractice4;

import java.util.*;

class LinearSearch {

	static int search(int arr[], int n, int x)

	{

		for (int i = 0; i < n; i++) {

			if (arr[i] == x)

				return i;

		}

		return -1;

	}

	public static void main(String[] args)

	{

		Scanner sc = new Scanner(System.in);

		System.out.println("Enter size to array : ");

		int n =sc.nextInt();

		System.out.println("Enter array element : ");

		int arr[] = new int[n];

		for(int i = 0 ; i<arr.length ;++i) {

			arr[i]=sc.nextInt();

		}

		System.out.println("Enter which Element Search : ");

		int x = sc.nextInt();

		int index = search(arr, n, x);

		if (index == -1)

			System.out.println("You search  wrong element");
```

```
            else
                  System.out.println("Element found at position " +
index);
      }
}
```

output-

```
Enter size to array :
6
Enter array element :
11
24
34
22
56
35
Enter which Element Search :
34
Element found at position 2
```