Assignment-5

Implement a Java method that performs a linear search on an array of integers, returning the index of the target value if found or -1 if not.

```java
package datastructures.searchingAlgorithms;

import java.util.Scanner;

public class LinearSearchDemo {


    public static int linearSearch(int[] a,int ele) {
        for(int i=0;i<a.length;i++) {
            if(a[i]==ele) {
                return i;
            }
        }
        return -1;
    }

    public static void main(String[] args) {

            int arr[]= {4,3,6,2,5,7,};
            Scanner sc=new Scanner(System.in);
            System.out.print("Enter element to Search : 5");
            int target=sc.nextInt();
            int result=linearSearch(arr,target);
            if(result!=-1)
                System.out.println("Element found at index : "+result);
            else
                System.out.println("Element not found");


    }
```

}