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| --- |
| package vandana.projects.com; |
|  |  |
|  | import java.util.Scanner; |
|  |  |
|  | public class linearSearch { |
|  |  |
|  | public static void main(String[] args) { |
|  | int[] arr = {10,20,30,40,50}; |
|  |  |
|  | Scanner sc = new Scanner(System.in); |
|  | System.out.println("Enter the element to be searched"); |
|  | int searchValue = sc.nextInt(); |
|  | int result = (int) linearing(arr,searchValue); |
|  |  |
|  | if(result==-1){ |
|  |  |
|  | System.out.println("Element not in the array"); |
|  | } else { |
|  |  |
|  | System.out.println("Element found at "+result+" and the search key is "+arr[result]); |
|  | } |
|  |  |
|  |  |
|  | } |
|  | public static int linearing(int arr[], int x) { |
|  |  |
|  | int arrlength = arr.length; |
|  | for (int i = 0; i < arrlength - 1; i++) { |
|  | if (arr[i] == x) { |
|  | return i; |
|  | } |
|  | } |
|  |  |
|  | return -1; |
|  | } |
|  |  |
|  |  |
|  | } |