**Linear search:**

class LinearSearch {

// This function returns index of element x in arr[]

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

{

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

// Return the index of the element if the element

// is found

if (arr[i] == x)

return i;

}

// return -1 if the element is not found

return -1;

}

public static void main(String[] args)

{

int[] arr = { 3, 4, 1, 7, 5 };

int n = arr.length;

int x = 4;

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

if (index == -1)

System.out.println("Element is not present in the array");

else

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

}

}

**Output:**

Element found at position 1