```
1 def linear_search(arr, target):
 2 for i in range(len(arr)):
      if arr[i] == target:
 4
        return i
 5
    return -1
 6
7 #Input from user
 8 arr=input("Enter the list of elements seperated by spaces:").split()
9 arr=[int(x) for x in arr]
10 # convert input elements to integers
11 target=int(input("Enter the target element to search for:"))
12 # Perform linear search
13 result=linear_search(arr, target)
14 if result !=-1:
print(f"Element {target} is present at index {result}.")
16 else:
17 print(f"Element {target} is not present in the array.")
19 #Kiran
20
21 #23A91A0482
22
23
    Enter the list of elements seperated by spaces:2 3 4 6 5
     Enter the target element to search for:5
     Element 5 is present at index 4.
 1 def binary_search (arr, target):
   low,high=0, len(arr)-1
 3
 4
    while low<=high:
 5
      mid = (low+high)//2
 6
      if arr [mid] == target:
 7
         return mid
 8
      elif arr[mid]<target:</pre>
 9
        low=mid+1
10
      else:
11
        high=mid-1
12
13
    return -1
14
15 arr=input("Enter the sorted list of elements seperated by spaces:").split()
16 arr=[int(x) for x in arr]
17
18 target=int(input("Enter the target element to search for:"))
19
20 result=binary_search (arr, target)
21
22 if result !=-1:
23
    print(f"Element {target} is present at index: {result}.")
24
25 else:
26
     print(f"Element {target} is not present in array.")
27
28 #kiran
29
30 #23A91A0482
₹ Enter the sorted list of elements seperated by spaces:2 3 4 5 6
     Enter the target element to search for:4
     Element 4 is present at index: 2.
```