```
def linear_search(arr, target):
  for i in range(len(arr)):
    if arr[i] == target:
      return i
  return -1

#Input from user
arr=input("Enter the list of elements seperated by spaces:").split()
arr=[int(x) for x in arr]
# convert input elements to integers
target=int(input("Enter the target element to search for:"))
# Perform linear search
result=linear_search(arr, target)
if result !=-1:
  print(f"Element {target} is present at index {result}.")
else:
  print(f"Element {target} is not present in the array.")

#Kiran

#23A91A0482
```

```
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.
```

```
def binary_search (arr, target):
  low,high=0, len(arr)-1

  while low<=high:
    mid = (low+high)//2
    if arr [mid] == target:
       return mid
    elif arr[mid]<target:
      low=mid+1
    else:
      high=mid-1

  return -1

arr=input("Enter the sorted list of elements seperated by spaces:").split()
arr=[int(x) for x in arr]

target=int(input("Enter the target element to search for:"))

result=binary_search (arr, target)

if result !=-1:
   print(f"Element {target} is present at index: {result}.")

else:
   print(f"Element {target} is not present in array.")

#kiran

#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.
```