

Program:

```
def linear_search(arr, target):  
    for index, value in enumerate(arr):  
        if value == target:  
            return index  
    return -1  
  
# Taking input for the array  
arr = list(map(int, input("Enter the elements of the array separated by space: ").split()))  
  
# Taking input for the target element  
target = int(input("Enter the target element to search: "))  
  
# Performing linear search  
result = linear_search(arr, target)  
  
if result != -1:  
    print(f"Element found at index {result}")  
else:  
    print("Element not found in the array")
```

Output:

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
● PS C:\Users\katur> & C:/Users/katur/AppData/Local/Programs/Python/Python312/python.exe "c:/Users/katur/Music/DAA practicals/practical1.py"  
Enter the elements of the array separated by space: 2 11 12 23 34 45 56 78 99  
Enter the target element to search: 45  
Element found at index 5  
○ PS C:\Users\katur> █
```