

Lab Question 7: Identify Location of an Element

Aim:

To write a C program to identify the location of an element in an array.

Algorithm:

1. Start the program.
2. Read array elements.
3. Input element to find.
4. Compare each element with the target.
5. If found, print index.
6. Stop.

Code:

```
#include <stdio.h>

int main() {
    int arr[5] = {10,20,30,40,50}, key, i, pos=-1;
    printf("Enter element to find: ");
    scanf("%d", &key);
    for (i = 0; i < 5; i++) {
        if (arr[i] == key) { pos = i; break; }
    }
    if (pos != -1) printf("Element %d found at index %d", key, pos);
    else printf("Element not found");
    return 0;
}
```

Test Cases:

- Input: 30 → Output: Index 2

Result:

The program locates an element in the array.