

## Lab Question 6: Search for Registration Number

### Aim:

To write a C program to search for a particular registration number in an array.

### Algorithm:

1. Start the program.
2. Read an array of registration numbers.
3. Input a registration number to search.
4. Traverse the array.
5. If found, print position. Else not found.
6. Stop.

### Code:

```
#include <stdio.h>

int main() {
    int arr[5] = {101,102,103,104,105}, key, i, found=0;
    printf("Enter reg no to search: ");
    scanf("%d", &key);
    for (i = 0; i < 5; i++) {
        if (arr[i] == key) {
            printf("Reg no %d found at position %d", key, i+1);
            found = 1; break;
        }
    }
    if (!found) printf("Reg no not found");
    return 0;
}
```

### Test Cases:

- Input: 103 → Output: Found at position 3
- Input: 110 → Output: Not found

### Result:

The program searches a registration number in an array.