

Experiment No: 04

Experiment Name: Use linear search to find a specific value.

Code:

```
#include <stdio.h>

int main() {

    int a[] = {20, 55, 150, 88, 45, 33, 24, 69};

    int n = sizeof(a) / sizeof(a[0]);

    int target = 150;

    int tracker = 0;

    for (int i = 0; i < n; i++) {

        if (a[i] == target) {

            printf("Value %d found at index %d\n", target, i);

            tracker = 1;

            break;

        }

    }

    if (tracker == 0) {

        printf("Value %d not found in the array\n", target);

    }

    return 0;

}
```

Output:

Value 150 found at index 2