

3. WAP to read a list of integers and store it in a single dimensional array. Write a C program to find the frequency of a particular number in a list of integers.

```
#include <stdio.h>

int main () {
    int n, i, search, count = 0;
    int arr[100]

    printf ("Enter number of elements: ");
    scanf ("%d", &n);
    printf ("Enter %d integers: \n", n);
    for (i=0; i<n; i++) {
        scanf ("%d", &arr[i]);
    }

    printf ("Enter the number to find its frequency: ");
    scanf ("%d", &search);
    for (i=0; i<n; i++) {
        if (arr[i] == search)
            count++;
    }

    printf ("Frequency of %d is: %d \n", search, count);
    return 0;
}
```

C exp5frequency.c > main()

```
1
2  #include <stdio.h>
3
4  int main() {
5      int n, i, search, count = 0;
6      int arr[100]; // assuming maximum 100 elements
7
8      printf("Enter number of elements: ");
9      scanf("%d", &n);
10
11     printf("Enter %d integers:\n", n);
12     for(i = 0; i < n; i++) {
13         scanf("%d", &arr[i]);
14     }
15
16     printf("Enter the number to find its frequency: ");
17     scanf("%d", &search);
18
19     for(i = 0; i < n; i++) {
20         if(arr[i] == search)
21             count++;
22     }
23
24     printf("Frequency of %d is: %d\n", search, count);
25
26     return 0;
27 }
28
```

```
> cd "c:\Users\abiga\OneDrive\Desktop\Absproj\" ; if ($?) { gcc ex
p5frequency.c -o exp5frequency } ; if ($?) { .\exp5frequency }
Enter number of elements: 4
Enter 4 integers:
0 -9 -9 3
Enter the number to find its frequency: -9
Frequency of -9 is: 2
PS C:\Users\abiga\OneDrive\Desktop\Absproj> 
```