

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>
```