

Q.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, num, count = 0;
    printf ("Enter number of elements");
    scanf ("%d", &n);

    int arr[n];
    printf ("Enter %d integers : ", n);
    for (i = 0; i < n; i++)
        scanf ("%d", &arr[i]);

    printf ("Enter number to find frequency:");
    scanf ("%d", &num);

    for (i = 0; i < n; i++)
        if (arr[i] == num) count++;

    printf ("Frequency of %d = %d", num, count);

    return 0;
}
```

Remarks:

Teacher's Signature \_\_\_\_\_

main.c



Run

Output

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

Enter number of elements: 7  
Enter 7 integers:

10  
25  
10  
50  
25  
10  
5

Enter number to find frequency: 10  
Frequency of 10 = 3