

Data structures-CSA0396

2.WRITE A C PROGRAM TO FIND ODD OR EVEN NUMBER FROM A GIVEN SET OF NUMBERS.

CODING:

```
#include<stdio.h>

int main(){

int n;

printf("Enter Array Size:");

scanf("%d",&n);

int arr[n];

int count_odd = 0,count_even = 0;

printf("Enter Array Elements : \n");

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

{

scanf("%d" ,&arr[i]);

if(arr[i] %2 == 0){

count_even+=1;

}

else

count_odd+=1;

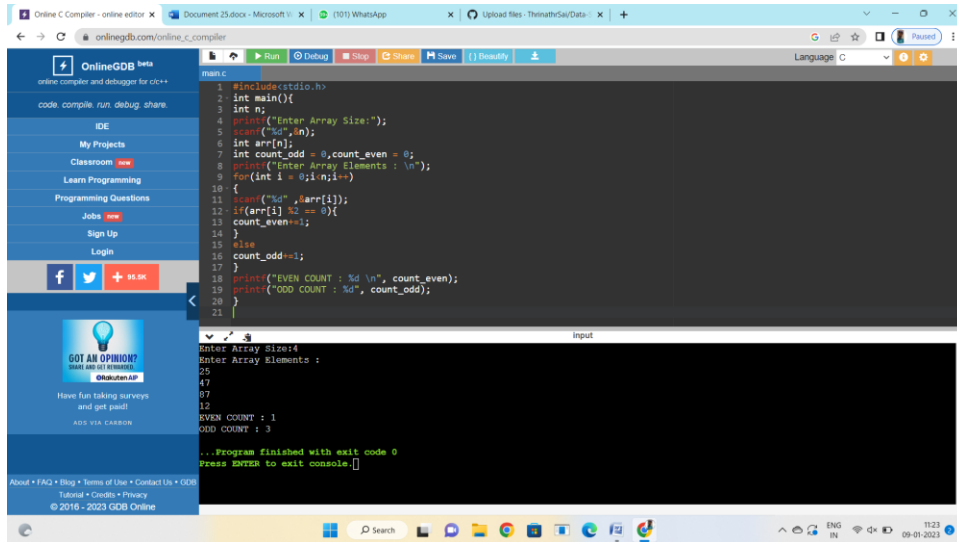
}

printf("EVEN COUNT : %d \n", count_even);

printf("ODD COUNT : %d", count_odd);

}
```

OUTPUT:



The screenshot displays the OnlineGDB web interface. On the left is a navigation menu with links like 'My Projects', 'Classroom', and 'Learn Programming'. The main area shows a C program that calculates the count of even and odd numbers in an array. The code is as follows:

```
1 #include<stdio.h>
2 int main(){
3     int n;
4     printf("Enter Array Size:");
5     scanf("%d",&n);
6     int arr[n];
7     int count_odd = 0, count_even = 0;
8     printf("Enter Array Elements : \n");
9     for(int i = 0; i < n; i++)
10    {
11        scanf("%d", &arr[i]);
12        if(arr[i] % 2 == 0){
13            count_even++;
14        }
15        else
16            count_odd++;
17    }
18    printf("EVEN COUNT : %d \n", count_even);
19    printf("ODD COUNT : %d", count_odd);
20 }
21
```

The output window at the bottom shows the execution results:

```
Enter Array Size:4
Enter Array Elements :
25
47
87
12
EVEN COUNT : 1
ODD COUNT : 3
...Program finished with exit code 0
Press ENTER to exit console.
```

The browser's taskbar at the bottom shows the date as 09-01-2023 and the time as 11:23.