C_51 → Arrays in C - Part 6

Array Program 3

Write a program to read an array of 10 integers and count total number of odd and even elements.

```c
void main()
{
    int a[10], i, odd = 0, even = 0;
    printf(" Enter the array elements :\n");
    for(i=0; i<10; i++)
        scanf(" %d ", &a[i]);
    // for(i=0; i<10; i++)
    {
        if(a[i]%2 == 0)
            even = even+1;
        else
            odd = odd+1;
    }
    printf(" No. of even elements : %d", even);
    printf(" No. of odd elements : %d", odd);
    getch();
}
```
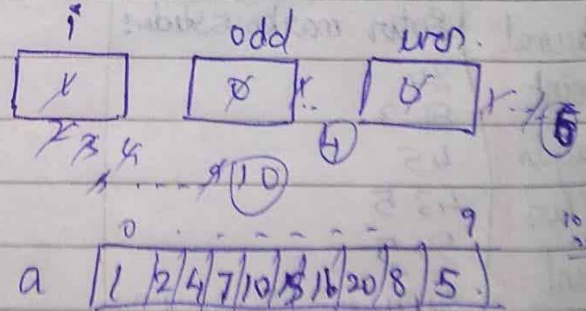
o/p

Enter 10 integer values:
1
2
4
7
10
12
16
20
8
5

Even: 6
odd: 4

CODE 1:

```c
#include <stdio.h>
#include <stdlib.h>
/** 3 - ARRAY PROGRAM **/
/** READ 10 INTEGER VALUES AND PRINT COUNT OF ODD & EVEN INTEGERS  **/
int main()
{
    int a[10],i,odd=0,even=0;
    printf("Enter the 10 integer values:\n");
    for(i=0;i<10;i++)
     scanf("%d",&a[i]);
     for(i=0;i<10;i++)
     {
       if(a[i]%2==0)
         even=even+1;
       else
         odd=odd+1;
     }
     printf("Number of even integers:%d\n",even);
     printf("Number of odd integers:%d\n",odd);
     getch();
}
```

```c
#include <stdlib.h>
/** 3 - ARRAY PROGRAM **/
/** READ 10 INTEGER VALUES AND PRINT COUNT OF ODD & EVEN INTEGERS  **/
int main()
{
    int a[10],i,odd=0,even=0;
    printf("Enter the 10 integer values:\n");
    for(i=0;i<10;i++)
    {
     scanf("%d",&a[i]);
     //for(i=0;i<10;i++)
     //{
       if(a[i]%2==0)
         even=even+1;
       else
         odd=odd+1;
     //}
    }
     printf("Number of even integers:%d\n",even);
     printf("Number of odd integers:%d\n",odd);
     getch();
}
```

```
"D:\1. C NOTEBOOK\C LANGUAGE\C PROGRAMS

Enter the 10 integer values:
1
2
4
7
10
15
16
20
8
5
Number of even integers:6
Number of odd integers:4
```