

## C-51 $\Rightarrow$ 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.

```
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();  
}
```

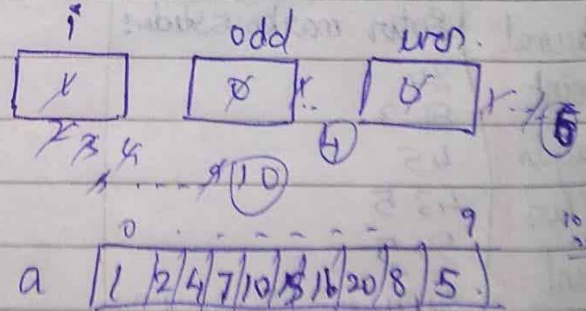
o/p

Enter 10 integer values:

1  
2  
4  
7  
10  
16  
20  
8  
5

Even: 6


odd: 4



## CODE 1:

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  /** 3 - ARRAY PROGRAM **/
4  /** READ 10 INTEGER VALUES AND PRINT COUNT OF ODD & EVEN INTEGERS **/
5  int main()
6  {
7      int a[10],i,odd=0,even=0;
8      printf("Enter the 10 integer values:\n");
9      for(i=0;i<10;i++)
10         scanf("%d",&a[i]);
11         for(i=0;i<10;i++)
12         {
13             if(a[i]%2==0)
14                 even=even+1;
15             else
16                 odd=odd+1;
17         }
18         printf("Number of even integers:%d\n",even);
19         printf("Number of odd integers:%d\n",odd);
20         getch();
21     }
22
```

```
2  #include <stdlib.h>
3  /** 3 - ARRAY PROGRAM **/
4  /** READ 10 INTEGER VALUES AND PRINT COUNT OF ODD & EVEN INTEGERS **/
5  int main()
6  {
7      int a[10],i,odd=0,even=0;
8      printf("Enter the 10 integer values:\n");
9      for(i=0;i<10;i++)
10     {
11         scanf("%d",&a[i]);
12         //for(i=0;i<10;i++)
13         //{
14             if(a[i]%2==0)
15                 even=even+1;
16             else
17                 odd=odd+1;
18         //}
19     }
20     printf("Number of even integers:%d\n",even);
21     printf("Number of odd integers:%d\n",odd);
22     getch();
23 }
```

 "D:\1. C NOTEBOOK\C LANGUAGE\C PROGRAM:"

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