```cpp
 5    int arr[100],i,num;
 6    printf("Enter size of the array \n");
 7    scanf("%d",&num);
 8    printf("Enter the elements of the array\n");
 9    i=0;
10    while(i<num){
11        scanf("%d",&arr[i]);
12        i++;
13    }
14    printf("\nEven numbers of the array are \n");
15    i=0;
16    while(i<num){
17        if(arr[i]%2==0){
18            printf("%d \t",arr[i]);
19        }
20        i++;
21    }
22    printf("\nOdd numbers of the array are \n");
23    i=0;
24    while(i<=num){
25        if (arr[i]%2==1){
26            printf("%d \t",arr[i]);
27        }
28        i++;
29    }
30    return 0;
31  }
```

```
Enter size of the array
9
Enter the elements of the array
1
2
3
4
5
6
7
8
9

Even numbers of the array are
2       4       6       8
Odd numbers of the array are
1       3       5       7       9
---------------------------------------
Process exited after 16.12 seconds with return value 0
Press any key to continue . . .
```