PROGRAM 2:

```c
#include <stdio.h>

int main()
{

    int array[100], i, num;
    printf("Enter the size of an array \n");

    scanf("%d", &num);
    printf("Enter the elements of the array \n");

    for (i = 0; i < num; i++)
    {
        scanf("%d", &array[i]);
    }

    printf("Even numbers in the array are:\t ");
    for (i = 0; i < num; i++)
    {
```

```c
if (array[i] % 2 == 0)

{

printf("%d \t", array[i]);

}

}


printf("\nOdd numbers in the array are:\t");

for (i = 0; i < num; i++)

{

if (array[i] % 2 != 0)

{

printf("%d \t", array[i]);

}

}


}
```

OUTPUT:

```
Enter the size of an array
5
Enter the elements of the array
1
3
12
5
4
Even numbers in the array are:   12      4
Odd numbers in the array are:    1       3       5
---------------------------------
Process exited after 81.29 seconds with return value 0
Press any key to continue . . .
```