EXECISE-2

2.Write a c program to find Odd or Even number from a give set of number.

Aim:To write a program that checks whether each number in a give Set is odd or even.

Algorithm:

- 1.Start the program.
- 2.Input number of elements.
- 3.Input element into an array.
- 4. For each number, check if divisible by 2.
- 5.If yes, it's even ;else odd.
- 6. Display all odd and even number.
- 7.End the program.

Program Code:

```
#include <stdio.h>
int main() {
  int arr[100], n;
  printf("Enter number of elements: ");
  scanf("%d", &n);
  printf("Enter %d elements: ", n);
  for (int i = 0; i < n; i++) {
    scanf("%d", &arr[i]);
  }</pre>
```

```
printf("Even numbers: ");
for (int i = 0; i < n; i++) {
    if (arr[i] % 2 == 0) {
        printf("%d ", arr[i]);
    }
}
printf("\nOdd numbers: ");
for (int i = 0; i < n; i++) {
    if (arr[i] % 2 != 0) {
        printf("%d ", arr[i]);
    }
}
return 0;
}</pre>
```

Input and Output:

```
Enter number of elements: 6
Enter 6 elements: 11 22 33 44 55 66
Even numbers: 22 44 66
Odd numbers: 11 33 55
```

Result:

The program correctly identifies and displays the even and odd numbers from the given set.