

Aim

To write a C program to find whether the given numbers are Odd or Even.

Algorithm

1. Start the program.
2. Declare an array to store the set of numbers.
3. Input how many numbers (n) the user wants to check.
4. Read the n numbers into the array.
5. For each number:
 - If the number $\% 2 == 0 \rightarrow$ it is Even.
 - Else \rightarrow it is Odd.
6. Print the result for each number.
7. End the program.

CODE:

```
#include <stdio.h>
```

```
int main() {
```

```
    int n, i, num[50];
```

```
    printf("Enter how many numbers you want to check: ");
```

```
    scanf("%d", &n);
```

```
    printf("Enter %d numbers:\n", n);
```

```
    for (i = 0; i < n; i++) {
```

```
        scanf("%d", &num[i]);
```

```
    }
```

```
    printf("\nResult:\n");
```

```
    for (i = 0; i < n; i++) {
```

```
        if (num[i] % 2 == 0)
```

```
            printf("%d is Even\n", num[i]);
```

```
        else
```

```
            printf("%d is Odd\n", num[i]);
```

```
    }
```

```
    return 0;
```

```
}
```

OUTPUT:

```
Output
Enter how many numbers you want to check: 5
Enter 5 numbers:
4 5 10 8 9

Result:
4 is Even
5 is Odd
10 is Even
8 is Even
9 is Odd

=== Code Execution Successful ===
```

RESULT:

The program successfully executed and displayed the ODD and EVEN from given set of numbers.