

AIM

To write a C program to find whether numbers in a given set are odd or even.

ALGORITHM

1. Start
2. Read the total number of elements in the set (n).
3. Input the elements into an array.
4. For each element in the array:
 - If the number is divisible by 2, it is Even.
 - Otherwise, it is Odd.
5. Display whether each number is odd or even.
6. End

Code

```
#include <stdio.h>

int main() {
    int n, i;

    printf("Enter the number of elements: ");
    scanf("%d", &n);

    int arr[n];

    printf("Enter the numbers:\n");
    for (i = 0; i < n; i++) {
        scanf("%d", &arr[i]);
    }

    printf("\nResult:\n");
    for (i = 0; i < n; i++) {
        if (arr[i] % 2 == 0)
            printf("%d is Even\n", arr[i]);
        else
            printf("%d is Odd\n", arr[i]);
    }

    printf("\nProgram executed successfully - Odd/Even check done.\n");
}
```

```
    return 0;  
}
```

INPUT AND OUTPUT

```
Enter the number of elements: 2  
Enter the numbers:  
1  
5  
  
Result:  
1 is Odd  
5 is Odd  
  
Program executed successfully - Odd/Even check done.  
  
=== Code Execution Successful ===
```

RESULT:

The C program to find Odd or Even numbers from a given set was successfully executed and the desired output was obtained.