

## Lab Question 8: Print Odd and Even Values in Array

Aim:

To write a C program to print odd and even values from an array.

Algorithm:

1. Start the program.
2. Read array elements.
3. Traverse array:
  - If  $\text{arr}[i] \% 2 == 0$ , print even.
  - Else print odd.
4. Stop.

Code:

```
#include <stdio.h>

int main() {
    int arr[6] = {1,2,3,4,5,6}, i;
    printf("Even: ");
    for (i = 0; i < 6; i++) if (arr[i] % 2 == 0) printf("%d ", arr[i]);
    printf("\nOdd: ");
    for (i = 0; i < 6; i++) if (arr[i] % 2 != 0) printf("%d ", arr[i]);
    return 0;
}
```

Test Cases:

- Input: [1,2,3,4,5,6] → Output: Even = 2 4 6, Odd = 1 3 5

Result:

The program separates odd and even values from an array.