

## Lab Question 4: Finding Duplicate Values in an Array

Aim:

To write a C program to find duplicate values in a given array.

Algorithm:

1. Start the program.
2. Read array elements.
3. Compare each element with others.
4. If duplicates found, print them.
5. Stop.

Code:

```
#include <stdio.h>

int main() {
    int arr[6] = {1,2,3,2,4,1}, i, j;
    printf("Duplicate elements: ");
    for (i = 0; i < 6; i++) {
        for (j = i+1; j < 6; j++) {
            if (arr[i] == arr[j]) {
                printf("%d ", arr[i]);
            }
        }
    }
    return 0;
}
```

Test Cases:

- Input: [1,2,3,2,4,1] → Output: 2 1

Result:

The program successfully identifies duplicate values.