PF lab 7 task 4 :

Code and output:

#include <stdio.h>

#define MAX\_SIZE 100  // To define a maximum size for the array

int main() {

    int size;

    // Input the size of the array

    printf("Enter the size of the array (max %d): ", MAX\_SIZE);

    scanf("%d", &size);

    // Check if size exceeds  from  the maximum allowed, if yes STOP

    if (size > MAX\_SIZE) {

        printf("Size exceeds the maximum limit.\n");

        return 1;

    }

    int arr[MAX\_SIZE];  // Declare the array with a maximum size to store the user input

    int count[MAX\_SIZE] = {0};  // Initialize count array to zero.This will be used in tracking the frequency of elements

    // Input array elements

    for (int i = 0; i < size; i++) {

        printf("Element %d: ", i + 1);

        scanf("%d", &arr[i]);

    }

    // Count occurrences of each element

    for (int i = 0; i < size; i++) {

        count[arr[i]]++;

    }

    // Print elements that occur more than once

    printf("Elements occurring more than once is/are : ");

    int found = 0;  //to be used as a flag to indicate no elements are occuring more than once.

    for (int i = 0; i < size; i++) {

        if (count[arr[i]] > 1) {

            printf("%d ", arr[i]);

            found = 1;

            // To avoid printing duplicates in the output

           // count[arr[i]] = 0; // Mark as printed

        }

    }

    if (found==0) {

        printf("None");

    }

    return 0;

}

Output :

