Solution Code

```c
/*  C program to delete all duplicate elements from an array  */

#include <stdio.h>

#define MAX_SIZE 100 //Maximum size of the array

int main(){

    int arr[MAX_SIZE]; //Declares an array of size 100

    int size; //Total number of elements in array

    int i, j, k; //Used for loop

    printf("Enter size of the array : ");

    scanf("%d", &size);

    printf("\nEnter elements in array : \n");

    for(i=0; i<size; i++)  {

        printf("\nEnter %d element in array : ",i+1);

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

    }

    for(i=0; i<size; i++){

        for(j=i+1; j<size; j++)   {

            /* If any duplicate found */

            if(arr[i]==arr[j])         {

                for(k=j; k<size; k++)          {

                    arr[k] = arr[k+1];

                }

                size--;     j--;

        }     }   }

    printf("\nArray elements after deleting duplicates : ");

    for(i=0; i<size; i++)  {

        printf(" %d ", arr[i]);

    }

    return 0;

}
```