

Practical-2

Program to remove duplicates form the array

Code:-

```
//program to remove duplicates in an array
#include <iostream>
using namespace std;

int main()

{

    int n ,x=0;
    cout << "Enter the number of elements::";
    cin >> n;                //taking array from the user
    int arr[n];
    for(int i=0 ;i<n ;i++)
    {
        cout << "Enter the elements::";
        cin >> arr[i];
    }

    cout << "The array you entered::";
    for(int i=0 ;i<n ;i++)
    {
        cout << arr[i] << " ";    //showing the inputed array to users
    }

    for(int i=0 ; i<n ;i++)
    {
        for(int j=i+1 ; j<n ;j++)
        {
            if(arr[i]==arr[j])        //checking for duplicate elements
            {
```

```

        for(int l=j ; l<n ; l++)
        {
            arr[l]=arr[l+1];    //removing the duplicates
        }
        n--;                    //decreasing the length of the array
    }

}

cout << endl << "The array after deleting duplicates::";
for(int i=0 ;i<n ;i++)
{
    cout << arr[i] << " ";    //printing the new updated array
}

return 0;

}

```

Output:-

```
Command Prompt
Microsoft Windows [Version 10.0.19042.685]
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C:\Users\harsh>cd desktop

C:\Users\harsh\Desktop>cd Pracricales
The system cannot find the path specified.

C:\Users\harsh\Desktop>cd Practicales

C:\Users\harsh\Desktop\Practicales>g++ Practical-2.cpp -o Practical-2.exe

C:\Users\harsh\Desktop\Practicales>Practical-2.exe
Enter the number of elements::4
Enter the elements::1
Enter the elements::2
Enter the elements::2
Enter the elements::4
The array you entered::1 2 2 4
The array after deleting duplicates::1 2 4
C:\Users\harsh\Desktop\Practicales>
```

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