

Day 48 coding Statement : Write Program to remove duplicate elements in an array

Description : Get an array as input from the user and then remove all the duplicate elements in that array.

Input : Enter the size of array - 5

Enter the elements of array

35 35 45 60 60

Output : 35 45 60

Program :

```
package com.talentbattle.codingchallenge;

import java.util.Scanner;

public class duplicate_element {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner scan = new Scanner(System.in);
        System.out.println("Enter the Length of Array");
        int n = scan.nextInt();
        int arr[] = new int[n];

        System.out.println("Enter the Array Elements");
        for(int i = 0; i <= arr.length - 1; i++)
        {
            arr[i] = scan.nextInt();
        }

        for(int i = 0; i <= arr.length - 1; i++)
        {
            for(int j = i + 1; j <= arr.length - 1; j++)
            {
                if(arr[i] == arr[j])
                {
                    arr[i] = -1;
                }
            }
        }
        for(int i = 0; i <= arr.length - 1; i++)
        {
            if(arr[i] != -1)
            {
                System.out.print(arr[i] + " ");
            }
        }
    }
}
```

}

The screenshot shows the Eclipse IDE with a Java project named 'Sudeep'. The main editor displays the file 'duplicate_element.java' with the following code:

```
1 package com.talentbattle.codingchallenge;
2
3 import java.util.Scanner;
4
5 public class duplicate_element {
6
7     public static void main(String[] args) {
8         // TODO Auto-generated method stub
9         Scanner scan = new Scanner(System.in);
10        System.out.println("Enter the Length of Array");
11        int n = scan.nextInt();
12        int arr[] = new int[n];
13
14        System.out.println("Enter the Array Elements");
15        for(int i = 0; i <= arr.length - 1; i++)
16        {
17            arr[i] = scan.nextInt();
18        }
19
20        for(int i = 0; i <= arr.length - 1; i++)
21        {
22            for(int j = i+1; j <= arr.length - 1; j++)
23            {
24                if(arr[i] == arr[j])
25                {
26                    arr[i] = -1;
27                }
28            }
29        }
30        for(int i = 0; i <= arr.length - 1; i++)
31        {
32            if(arr[i] != -1)
33            {
34                System.out.print(arr[i] + " ");
35            }
36        }
37    }
38 }
```

The Console window on the right shows the program's execution output:

```
<terminated> duplicate_element [Java Application] C:\Program Files\Java
Enter the Length of Array
5
Enter the Array Elements
35
35
45
45
60
60
35 45 60
```

The Windows taskbar at the bottom shows the system clock as 8:59 AM on 1/4/2023, with a weather widget indicating 27°C Clear.