| S.No: 21 | Exp. Name: *program that takes inputs 5 numbers, each between 10 and 100* | Date: 2022-02-22 |
|----------|------------------------------------------------------------------------------|-----------------|

### Aim:

Write java program that inputs 5 numbers, each between 10 and 100 inclusive. As each number is read display it only if it's not a duplicate of any number already read. Display the complete set of unique values input after the user enters new values

### Source Code:

Duplicate.java

```java
import java.util.Scanner;
class Duplicate {
    public static boolean check(int[] arr, int key) {
        for(int i=0; i < arr.length; i++) {
            if(arr[i] == key) {
                return true;}
                }
            return false; }
public static void main(String args[] ) {
    Scanner sc = new Scanner(System.in);
    int[] nums = new int[5];
    int count=0;
    System.out.println("Enter 5 unique values between 10 & 100 ");
while(count != 5) {
    int x = sc.nextInt();
    if(x > 100 || x < 10) {
        System.out.println("Entered value must be in between 10 & 100");
        continue;        }
    if( check(nums, x) ) {
        System.out.println("Duplicate value found, retry");
        continue;         }
    nums[count] = x;
    count++;    }
    System.out.print("The five unique values are :");
    for(int i=0; i < nums.length; i++) {
        System.out.print(Integer.toString( nums[i] ) + " ");
        }

}

}
```

### Execution Results - All test cases have succeeded!

| Test Case - 1 | |
|---------------|---|
| **User Output** | |
| Enter 5 unique values between 10 & 100  25 | |
| 15 | 15 |
| 30 | 30 |
| 0 | 0 |
| Entered value must be in between 10 & 100 34 | |

### Test Case - 1

| 89 | 89 |
|---|---|
| The five unique values are :25 15 30 34 89 | |

### Test Case - 2

| User Output | |
|---|---|
| Enter 5 unique values between 10 & 100  48 | |
| 92 | 92 |
| 34 | 34 |
| 92 | 92 |
| Duplicate value found, retry 39 | |
| 23 | 23 |
| The five unique values are :48 92 34 39 23 | |

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