

**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**

```
import java.util.Scanner;
class Duplicate {
    static boolean isDuplicate(int ele,int arr[]) {
        for(int i=0;i<5;i++) {
            if(ele==arr[i]) {
                return true;
            }
        }
        return false;
    }
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int num[] = new int[5];
        System.out.println("Enter 5 unique values between 10 & 100 ");
        int c=0;
        while(c<5){
            int element = sc.nextInt();
            if(element>10&&element<100) {
                if(isDuplicate(element,num)==true) {
                    System.out.println("Duplicate value found, retry");
                }else{
                    num[c]=element;
                    c++;
                }
            }else{
                System.out.println("Entered value must be in between 10 & 100");
            }
        }
        System.out.print("The five unique values are :");
        for(int i=0;i<5;i++) {
            System.out.print(num[i]+" ");
        }
    }
}
```

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

| Test Case - 1                             |
|---|
| User Output                               |
| Enter 5 unique values between 10 & 100 25 |
| 15  |

|  |
|--|
| 30   |
| 0  |
| Entered value must be in between 10 & 100 34 |
| 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   |
| 34   |
| 92   |
| Duplicate value found, retry 39            |
| 23   |
| The five unique values are :48 92 34 39 23 |