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;
public class Duplicate {
    public static void main(String[] args) {
        int a[]={0,0,0,0,0},t,i,j,s=0,r=0;
        Scanner z=new Scanner(System.in);
        System.out.println("Enter 5 unique values between 10 & 100 ");
        for(j=0;j<5;j++) {t=z.nextInt();
        if(t>10&&t<=100) {
            for(i=0;i<r;i++) {
                if(a[i]==t)s++;}if(s>0) {
                    System.out.println("Duplicate value found, retry");
                s--;
                j--;
                continue;
            }else {
                a[j]=t;r++;}}
            else {
                System.out.println("Entered value must be in between 10 & 100");
                j--;
            }
        }
        System.out.print("The five unique values are :");
        for(i=0;i<5;i++) {
            System.out.print(a[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