

# CSE1007 - Java Programming

## Lab Assessment 1

SANJIT KUMAR

18BCE0715

Lab - L5 + L6

Time: 11.30AM - 1PM

Date: 15/02/2021

Prof. ANITHA A

### Question Allotted: 1

Write a program to identify common elements or numbers between two given arrays. You should not use any inbuilt methods are list to find common values.  
For Integer and String Elements

### Source Code

```
// LAB ASSESSMENT 1 – SANJIT KUMAR – 18BCE0715

import java.util.Scanner;
public class assessment {

    public static void main(String[] args) {
        Scanner s = new Scanner(System.in);
        System.out.println("1.Choose String Elements or 2.Integer
Elements:\n");
        int choice = s.nextInt();

        if (choice==2){
            int n1,n2;
            System.out.println("Please Enter the Size of Array 1:");
            n1 = s.nextInt();
            int[] arr1 = new int[n1];
            System.out.println("Please Enter the Size of Array 2:");
            n2 = s.nextInt();
            int[] arr2 = new int[n2];
            System.out.println("Please Enter the Elements of array 1:");
            for (int i=0;i<n1;i++){
                arr1[i] = s.nextInt();
            }
            System.out.println("Please Enter the Elements of array 2:");
            for (int j=0;j<n2;j++){
                arr2[j] = s.nextInt();
            }
        }
    }
}
```

```

s.close();

// finding common elements
System.out.println("the common elements are:");
int count=0;
for(int i = 0;i<n1;i++){
    for (int j=0;j<n2;j++){
        if(arr1[i]==arr2[j]){
            System.out.print(arr2[j]+" ");
            count++;
        }
    }
}
if (count==0){
    System.out.println("None!");
}
} else if(choice==1){
    int n3,n4;
    System.out.println("Please Enter the Size of Array 1:");
    n1 = s.nextInt();
    String[] arr3 = new String[n3];
    System.out.println("Please Enter the Size of Array 2:");
    n2 = s.nextInt();
    String[] arr4 = new String[n4];
    System.out.println("Please Enter the Elements of array 1:");
    for (int i=0;i<n3;i++){
        arr3[i] = s.nextLine();
    }
    System.out.println("Please Enter the Elements of array 2:");
    for (int j=0;j<n4;j++){
        arr4[j] = s.nextLine();
    }
    s.close();

    // finding common elements
    System.out.println("the common elements are:");
    int count=0;
    for(int i = 0;i<n3;i++){
        for (int j=0;j<n4;j++){
            if(arr3[i].equals(arr4[j])){
                System.out.print(arr4[j]+" ");
                count++;
            }
        }
    }
    if (count==0){
        System.out.println("None!");
    }
}
}
}

```

## Output

### For Integer Elements (with and without common)

```
sanjithkumar@Sanjits-MacBook-Air java-programming % java assessments/assessment.java
1.Choose String Elements or 2.Integer Elements:
2
Please Enter the Size of Array 1:
2
Please Enter the Size of Array 2:
2
Please Enter the Elements of array 1:
1
2
Please Enter the Elements of array 2:
2
3
the common elements are:
2
```

```
Please Enter the Size of Array 1:
3
Please Enter the Size of Array 2:
2
Please Enter the Elements of array 1:
1
2
Please Enter the Elements of array 2:
1
2
the common elements are:
None!
sanjithkumar@Sanjits-MacBook-Air java-programming % java assessments/assessment.java
```

### For String Elements (with and without common)

```
sanjithkumar@Sanjits-MacBook-Air java-programming % java assessments/assessment.java
1.Choose String Elements or 2.Integer Elements:
1
Please Enter the Size of Array 1:
2
Please Enter the Size of Array 2:
2
Please Enter the Elements of array 1:
Sanjit
Kumar
Please Enter the Elements of array 2:
Kumar
Muthusamy
the common elements are:
Kumar
sanjithkumar@Sanjits-MacBook-Air java-programming %
```

```
sanjitkumar@Sanjits-MacBook-Air java-programming % java assessments/assessment.java
1.Choose String Elements or 2.Integer Elements:

1
Please Enter the Size of Array 1:
2
Please Enter the Size of Array 2:
2
Please Enter the Elements of array 1:
Sanjit
Kumar
Please Enter the Elements of array 2:
Raj
John
the common elements are:
None!
sanjitkumar@Sanjits-MacBook-Air java-programming %
```