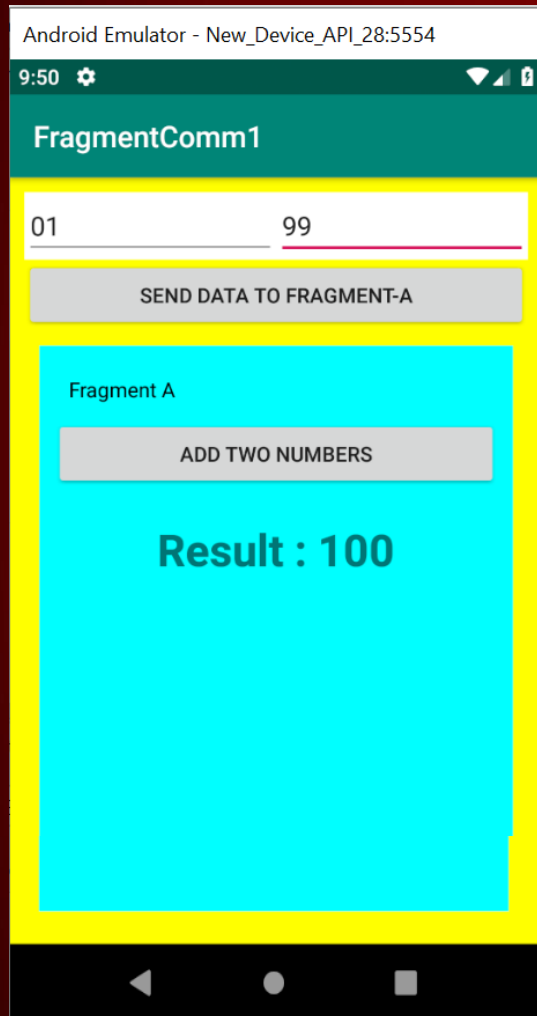


COMMUNICATION

- ❖ **SENDING DATA TO A FRAGMENT FROM ACTIVITY**
- ❖ **SENDING DATA TO ACTIVITY FROM FRAGMENT**
- ❖ **INTER FRAGMENT COMMUNICATION**

❖ 1. SENDING DATA TO A FRAGMENT FROM ACTIVITY



- ❑ Using Bundle Object
 - ❑ Stores key/value pair
- ❑ Using Fragment Object

2. SENDING DATA TO AN ACTIVITY FROM FRAGMENT

Activity implements
MyListener

```
@override  
Public void add(int x, int y){  
    //add x +y  
    //show result  
}
```

Fragment

```
activity.add(x,y)
```

```
interface myListener  
public void add(int num1,int num2)
```

```
graph LR  
    subgraph Activity [Activity]  
        subgraph MyListener_Implement [MyListener Implementation]  
            Add_Activity[add(int x, int y)]  
        end  
        subgraph Fragment [Fragment]  
            Add_Fragment[activity.add(x,y)]  
        end  
    end  
    subgraph MyListener_Interface [MyListener Interface]  
        Add_Interface[add(int num1, int num2)]  
    end  
    Add_Activity --> Add_Interface  
    Add_Fragment --> Add_Activity
```

MainActivity extends Activity implements MyListener{

@override

Public void add(int num1, int num2) {

int result = num1 + num2;

txvResult.setText("Result:" + result);

}

}

Class FragmentA extends Fragment{

Private void sendData{

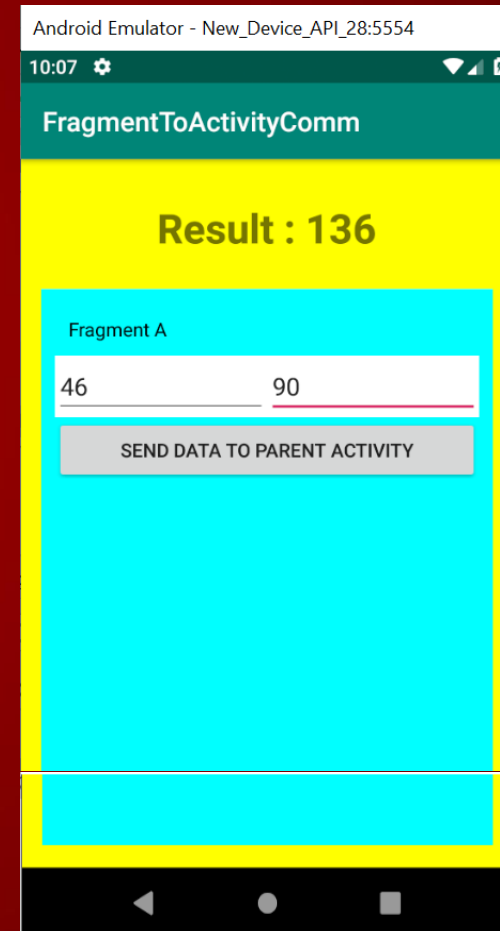
MyListener listener=(MyListener) getActivity();

Listener.add(23,17);

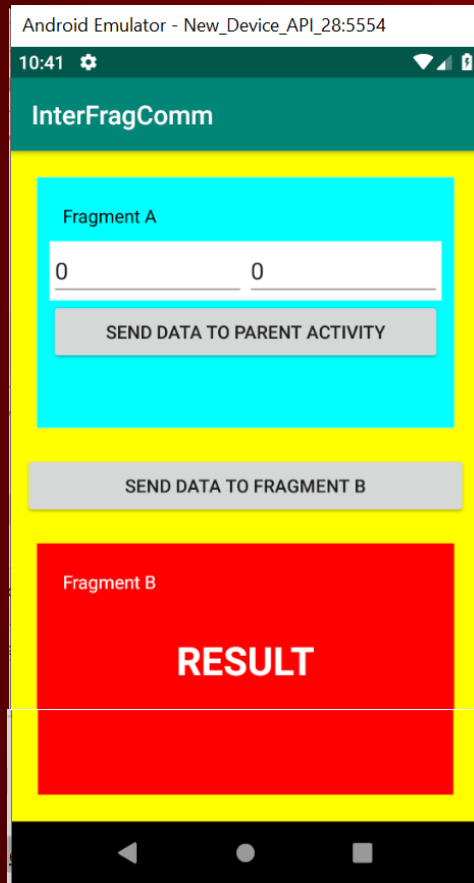
}

}

Interface MyListener{
public void add(int num1, int num2);
}



❖ 3. SENDING DATA FROM ONE FRAGMENT TO ANOTHER



Take input in Fragment A

- Get FirstNumber
- Get SecondNumber

Pass the Data to FragmentB

- Add Two numbers($\text{FirstNumber} + \text{SecondNumber}$)
- Display the Result

❖ COMMUNICATION BETWEEN TWO FRAGMENTS

Activity implements MyListener

Fragment A

activity.add(x,y)

@Override

Public void add(int x, int y){
fragB.addTwoNumbers(x,y) }

Activity

Fragment B

```
Public void addTwoNumbers(int a, int b)
{
int result = a+b;
}
```

interface myListener

public void add(int num1, int num2);

- Pass data from fragmentA to Activity
 - Pass data from Activity to FragmentB
 - Add method in FragmentA
 - call add method in activity class to call
fragB.addTwoNumbers(x,y)
 - It executes addTwoNumbers in
FragmentB
- * not communicating directly but creating a
communication gap between two fragments

❖ STEPS FOR SENDING DATA FROM ONE FRAGMENT TO ANOTHER

- ❑ Create an interface MyListener
 - ❑ Define a callback method
- ❑ Implement MyListener in Activity
- ❑ Pass data from FragmentA to Activity
 - ❑ `activity.add(x,y)`
- ❑ Pass data from Activity to FragmentB
 - ❑ `FragB.addTwoNumbers(x,y)`