Understanding Communication Flow from Fragment to Activity

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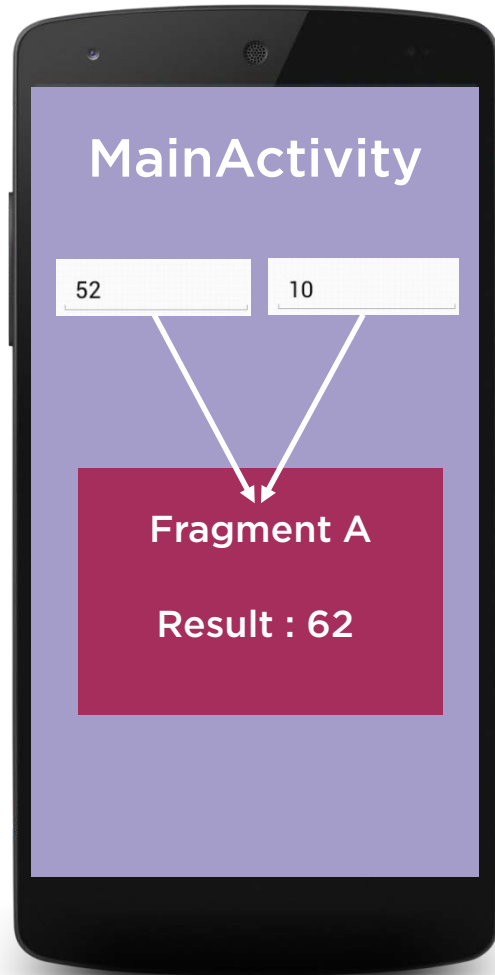
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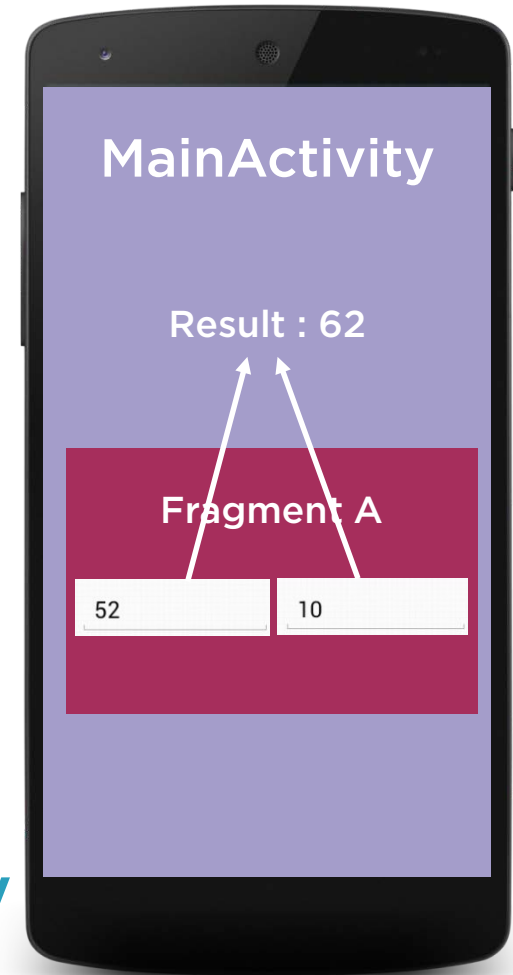# Sending Data to an Activity from Fragment

Activity to a Fragment

Communication

Fragment to an Activity

Sending Data to an Activity from Fragment

MainActivity

Result : 62

Fragment A

52   10
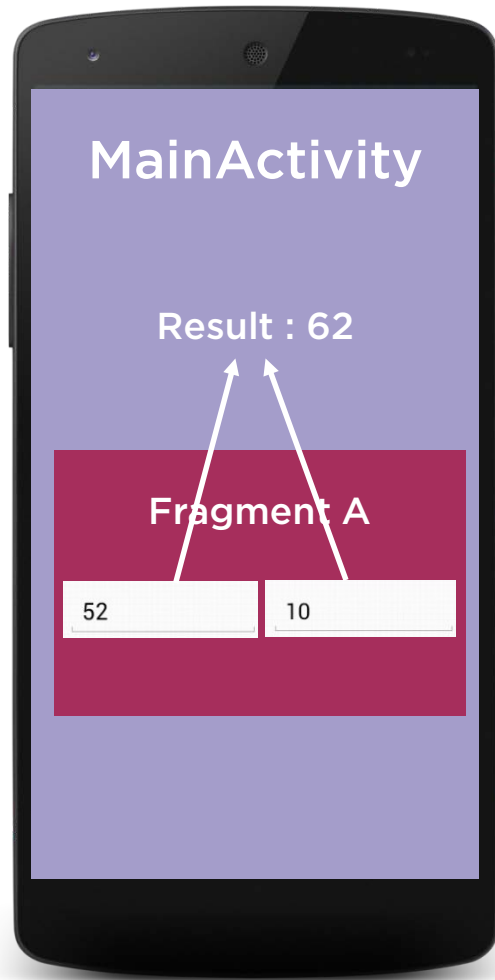
Take Input in Fragment
- First Number
- Second Number

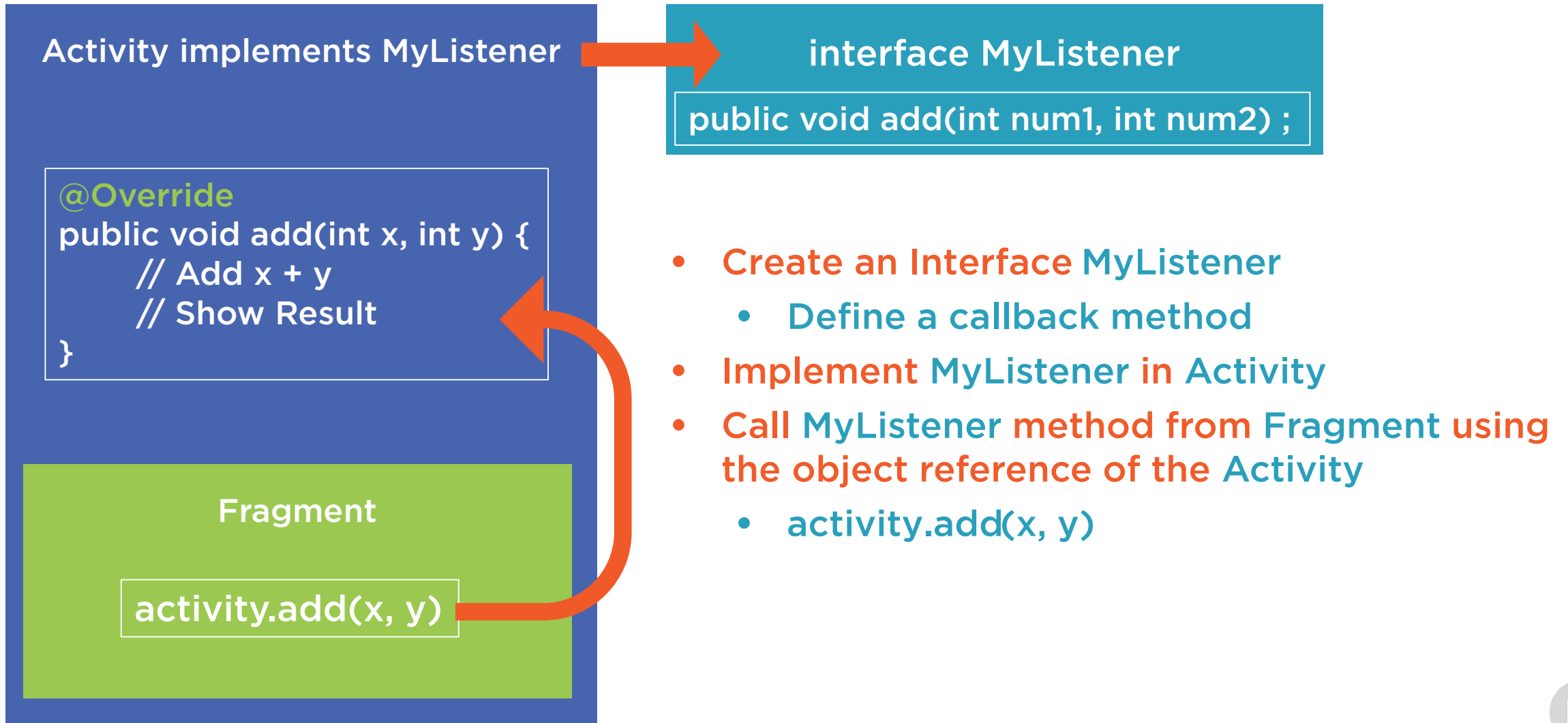**Pass Data From Fragment to Activity**

Inside Activity Perform Operation
- Add Two Numbers (First Num + Second Num)
- Display the Result

Initial Project Setup

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) ;`

- **Create an Interface MyListener**
  - **Define a callback method**
- **Implement MyListener in Activity**
- **Call MyListener method from Fragment using the object reference of the Activity**
  - `activity.add(x, y)`

Communication from Fragment to an Activity

```java
MainActivity extends Activity implements MyListener {

    @Override
    public void add(int num1, int num2) {
        int result = num1 + num2;
        txvResult.setText("Result : " + result);
    }
}
```

```java
interface MyListener {

    public void add(int num1, int num2);

}
```

```java
class FragmentA extends Fragment {

  private void sendData() {
      MyListener listener = (MyListener) getActivity();
      listener.add( 23, 17 );
  }
}
```