

SMD TASK March 13, 2025

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Main activity.java

```
package com.example.march_13_hometask;

import android.os.Bundle;

import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_main);
        // Load Fragment 1 initially
        if (savedInstanceState == null) {
            getSupportFragmentManager().beginTransaction()
                .replace(R.id.fragment_container, new fragment1())
                .commit();
        }
    }
}
```

Fragment 1 JAVA

```
package com.example.march_13_hometask;

import android.os.Bundle;

import androidx.annotation.NonNull;
import androidx.annotation.Nullable;
import androidx.fragment.app.Fragment;

import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.Button;
```

```
import android.widget.EditText;
```

```
public class fragment1 extends Fragment {
```

```
    private EditText editText;  
    private Button btnSend;
```

```
    // TODO: Rename and change types of parameters
```

```
    public fragment1() {  
        // Required empty public constructor  
    }  
  
    @Override
```

```
    public void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
    }  
  
    @Nullable
```

```
    @Override  
    public View onCreateView(@NonNull LayoutInflater inflater, @Nullable ViewGroup container,  
        @Nullable Bundle savedInstanceState) {  
        View view = inflater.inflate(R.layout.fragment_fragment1, container, false);
```

```
        editText = view.findViewById(R.id.editText);  
        btnSend = view.findViewById(R.id.btnSend);
```

```
        btnSend.setOnClickListener(v -> {  
            String text = editText.getText().toString();
```

```
            fragment2 fragment2 = new fragment2();  
            Bundle bundle = new Bundle();  
            bundle.putString("data1", text);  
            fragment2.setArguments(bundle);
```

```
            getParentFragmentManager().beginTransaction()  
                .replace(R.id.fragmentContainer, fragment2)  
                .addToBackStack(null)  
                .commit();
```

```
    });  
  
    return view;  
}  
}
```

Fragment 2.java

```
package com.example.march_13_hometask;
```

```
import android.os.Bundle;
```

```
import androidx.annotation.NonNull;  
import androidx.annotation.Nullable;  
import androidx.fragment.app.Fragment;
```

```
import android.view.LayoutInflater;  
import android.view.View;  
import android.view.ViewGroup;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.TextView;
```

```
public class fragment2 extends Fragment {
```

```
    private TextView textView;  
    private EditText editText;  
    private Button btnSend;  
    public fragment2() {  
        // Required empty public constructor  
    }
```

```
    @Override  
    public void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);
```

```
    }
```

```
    @Nullable
```

```
    @Override
```

```
    public View onCreateView(@NonNull LayoutInflater inflater, @Nullable ViewGroup container,  
        @Nullable Bundle savedInstanceState) {
```

```

View view = inflater.inflate(R.layout.fragment_fragment2, container, false);

textView = view.findViewById(R.id.textView);
editText = view.findViewById(R.id.editText);
btnSend = view.findViewById(R.id.btnSend);

// Receive data from Fragment 1
Bundle bundle = getArguments();
if (bundle != null) {
    String receivedText = bundle.getString("data1");
    textView.setText("From Fragment 1: " + receivedText);
}

btnSend.setOnClickListener(v -> {
    String text = editText.getText().toString();

    fragment3 fragment3 = new fragment3();
    Bundle newBundle = new Bundle();
    newBundle.putString("data2", text);
    fragment3.setArguments(newBundle);

    getParentFragmentManager().beginTransaction()
        .replace(R.id.fragmentContainer, fragment3)
        .addToBackStack(null)
        .commit();
});

return view;
}
}

```

Fragment 3.java

```
package com.example.march_13_hometask;
```

```
import android.os.Bundle;
```

```
import androidx.annotation.NonNull;
```

```
import androidx.annotation.Nullable;
```

```
import androidx.fragment.app.Fragment;
```

```
import android.view.LayoutInflater;
```

```
import android.view.View;
```

```
import android.view.ViewGroup;
import android.widget.TextView;
```

```
public class fragment3 extends Fragment {
    private TextView textView;
```

```
    public fragment3() {
        // Required empty public constructor
    }
```

```
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
    }
```

```
    @Nullable
    @Override
    public View onCreateView(@NonNull LayoutInflater inflater, @Nullable ViewGroup container,
        @Nullable Bundle savedInstanceState) {
        View view = inflater.inflate(R.layout.fragment_fragment3, container, false);

        textView = view.findViewById(R.id.textview);

        // Receive data from Fragment 2
        Bundle bundle = getArguments();
        if (bundle != null) {
            String receivedText = bundle.getString("data2");
            textView.setText("Text from Fragment 2: " + receivedText);
        }

        return view;
    }
}
```

XML File:

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <FrameLayout
        android:id="@+id/fragmentContainer"
        android:layout_width="match_parent"
        android:layout_height="match_parent">

    </FrameLayout>
</androidx.constraintlayout.widget.ConstraintLayout>
```

Fragment 1 XML

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:orientation="vertical"
    android:paddingTop="50dp"
    android:paddingLeft="20dp"
    android:paddingRight="20dp"
    android:layout_height="match_parent"
    tools:context=".fragment1">
    <EditText
        android:id="@+id/editText"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Enter text here" />
    <Button
        android:id="@+id/btnSend"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Send to next fragment" />

</LinearLayout>
```

Fragment 2 XML

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:orientation="vertical"
    android:paddingTop="50dp"
    android:paddingLeft="20dp"
    android:paddingRight="20dp"
    android:layout_height="match_parent"
    tools:context=".fragment1">

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Data from Fragment 1"
        android:textSize="18sp" />

    <EditText
        android:id="@+id/editText"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Enter text" />

    <Button
        android:id="@+id/btnSend"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Send to Fragment 3"/>
</LinearLayout>
```

Fragment 3 XML

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:orientation="vertical"
    android:paddingTop="50dp"
    android:paddingLeft="20dp"
    android:paddingRight="20dp"
    android:layout_height="match_parent"
```



```
tools:context=".fragment3">  
  
<TextView  
    android:id="@+id/textView"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:text="Received Data from Fragment 2"  
    android:textSize="18sp"/>  
</LinearLayout>
```

Output: Fragment 1





Fragment 2 and 3

End of file