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| <pre><?xml version="1.0" encoding="utf-8" ?> <LinearLayout 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:layout_width="match_parent" android:layout_height="match_parent" android:orientation="vertical" tools:context=".MainActivity"> <LinearLayout android:layout_width="match_parent" android:layout_height="wrap_content"> <Button android:id="@+id/btn1" android:text="프래그먼트 A 호출" android:layout_width="wrap_content" android:layout_height="wrap_content" /> <Button android:id="@+id/btn2" android:text="프래그먼트 B 호출" android:layout_width="wrap_content" android:layout_height="wrap_content" /> <Button android:id="@+id/btn3" android:text="프래그먼트 C 호출" android:layout_width="wrap_content" android:layout_height="wrap_content" /> </LinearLayout> <fragment android:id="@+id/fragment_lay" android:layout_width="match_parent" android:layout_height="0dp" android:layout_weight="1" android:name="com.ict.ex40_fregment.Fragment_A"/> <LinearLayout android:layout_width="match_parent" android:layout_height="0dp" android:background="#CDDC39" android:layout_weight="1"> <TextView android:layout_width="match_parent" android:layout_height="wrap_content" android:text="Activity 화면" android:textAlignment="center" android:layout_marginTop="50dp" android:textSize="40sp"/> </LinearLayout> </LinearLayout></pre> | |
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| <pre><?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:background="#F44336" android:layout_width="match_parent" android:layout_height="match_parent"> <TextView android:id="@+id/textView" android:layout_width="wrap_content" android:layout_height="wrap_content" android:textSize="40sp" android:text="Fragment A" android:textColor="#fff" android:textStyle="bold" app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintHorizontal_bias="0.498" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" app:layout_constraintVertical_bias="0.216" /> </androidx.constraintlayout.widget.ConstraintLayout></pre> | |
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| <pre><?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:background="#0043ff" android:layout_width="match_parent" android:layout_height="match_parent"> <TextView android:layout_width="wrap_content" android:layout_height="wrap_content" android:textSize="40sp" android:text="Fragment B" android:textColor="#fff" android:textStyle="bold" app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintHorizontal_bias="0.498" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" app:layout_constraintVertical_bias="0.216" /> </androidx.constraintlayout.widget.ConstraintLayout></pre> | |
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```
// 1. API 28부터는 fragment를 가지고 있는 Activity는 FragmentActivity를 사용해야 된다.
// 현재 API를 확인 하는 방법 : 프로젝트- Gradle Scripts - 두번째 build.gradle 더블 클릭
// 2. layout에서 만든 fragment a, b를 인플레이 해주는 Fragment를 만들어야 한다.
public class MainActivity extends FragmentActivity {
    Button btn1, btn2, btn3 ;
    // Fragment A,B를 객체로 만들어서 사용하자
    Fragment_A frag_a ;
    Fragment_B frag_b ;
    Fragment_C frag_c ;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        btn1 = findViewById(R.id.btn1);
        btn2 = findViewById(R.id.btn2);
        btn3 = findViewById(R.id.btn3);

        // fragment_a 호출
        btn1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                frag_a = new Fragment_A();
                // 프래그먼트 매니저를 이용해서 프래그먼트 내용 변경
                // remove (삭제), add(추가)
                // replace (치환)
                getSupportFragmentManager()
                    .beginTransaction()
                    .replace(R.id.fragment_layout, frag_a).commit();
            }
        });
        // fragment_b 호출
        btn2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                frag_b = new Fragment_B();
                // 프래그먼트 매니저를 이용해서 프래그먼트 내용 변경
                // remove (삭제), add(추가)
                getSupportFragmentManager()
                    .beginTransaction()
                    .remove(frag_b).commit();
                getSupportFragmentManager()
                    .beginTransaction()
                    .add(R.id.fragment_layout, frag_b).commit();
            }
        });
        // fragment_c 호출
        btn3.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                frag_c = new Fragment_C();
                getSupportFragmentManager()
                    .beginTransaction()
                    .replace(R.id.fragment_layout, frag_c).commit();
            }
        });
    }
}
```



```
// 2. layout에서 만든 fragment a, b를 인플레이 해주는 Fragment를 만들어야 한다.
// Fragment를 상속 받아야 한다.
public class Fragment_A extends Fragment {
    // 이벤트 처리를 위해
    MainActivity activity;
    @Nullable
    @Override
    public View onCreateView(@NonNull LayoutInflater inflater,
        @Nullable ViewGroup container, @Nullable Bundle savedInstanceState) {
        ViewGroup vg = (ViewGroup)inflater.inflate(R.layout.fragment_a, container, false);
        return vg;
    }
    // Fragment가 activity에 올라갔을 때 getActivity()메소드를 통해서 호출한다.
    @Override
    public void onAttach(@NonNull Context context) {
        super.onAttach(context);
        activity = (MainActivity)getActivity();
    }
    // Fragment가 종료 될때
    @Override
    public void onDetach() {
        super.onDetach();
        activity = null ;
    }
}
```



```
public class Fragment_B extends Fragment {
    // 이벤트 처리를 위해
    MainActivity activity;
    @Nullable
    @Override
    public View onCreateView(@NonNull LayoutInflater inflater,
        @Nullable ViewGroup container, @Nullable Bundle savedInstanceState) {
        ViewGroup vg = (ViewGroup)inflater.inflate(R.layout.fragment_b, container, false);
        return vg;
    }
    // Fragment가 activity에 올라갔을 때 getActivity()메소드를 통해서 호출한다.
    @Override
    public void onAttach(@NonNull Context context) {
        super.onAttach(context);
        activity = (MainActivity)getActivity();
    }
    // Fragment가 종료 될때
    @Override
    public void onDetach() {
        super.onDetach();
        activity = null ;
    }
}
```

