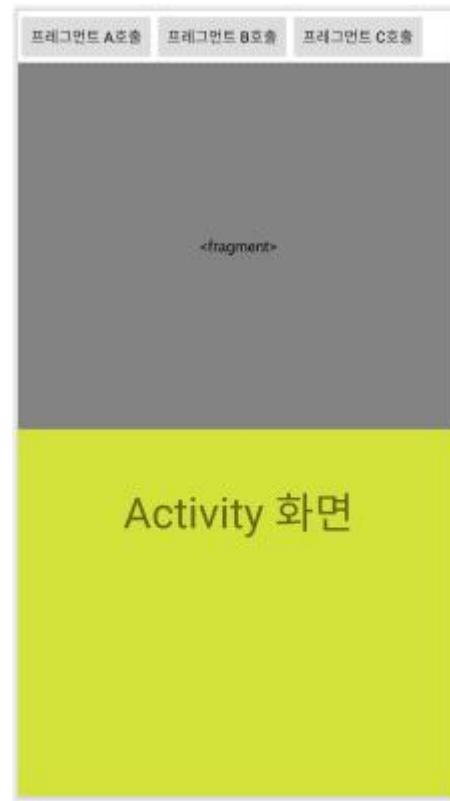


```

<?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="프로그먼트 A호출"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content" />
        <Button
            android:id="@+id/btn2"
            android:text="프로그먼트 B호출"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content" />
        <Button
            android:id="@+id/btn3"
            android:text="프로그먼트 C호출"
            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>

```



```

<?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>

```



```

<?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>

```



```

<?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="#00BCD4"
    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 C"
        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>

```



```

// 1. API 28부터는 fragment를 가지고 있는 Activity는 FragmentActivity를 사용해야 된다.
// 현재 API를 확인 하는 방법 : 프로젝트- Gradle Scripts - 두번쩨 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();
                // 프레그먼트 매니저를 이용해서 프레그먼트 내용 변경
                // remove (삭제), add(추가)
                // replace (치환)
                getSupportFragmentManager()
                    .beginTransaction()
                    .replace(R.id.fragment_lay, frag_a).commit();
            }
        });
        // fragment_b 호출
        btn2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                frag_b = new Fragment_B();
                // 프레그먼트 매니저를 이용해서 프레그먼트 내용 변경
                // remove (삭제), add(추가)
                getSupportFragmentManager()
                    .beginTransaction()
                    .remove(frag_b).commit();
                getSupportFragmentManager()
                    .beginTransaction()
                    .add(R.id.fragment_lay, 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_lay, 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 ;
    }
}

```

