

```
<?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" >

    <EditText
        android:layout_marginTop="50dp"
        android:id="@+id/editText1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:inputType="text" />

    <Button
        android:id="@+id/button1"
        android:layout_marginTop="50dp"
        android:layout_gravity="center"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="서비스 시작" />

    <Button
        android:id="@+id/button2"
        android:layout_marginTop="50dp"
        android:layout_gravity="center"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="서비스 종료" />

</LinearLayout>
```



```
<?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=".MainActivity2">

    <TextView
        android:layout_marginTop="120dp"
        android:textSize="50sp"
        android:layout_gravity="center"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="SubActivity" />

    <TextView
        android:id="@+id/result"
        android:textSize="30sp"
        android:textAlignment="center"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="받는 정보 : " />

</LinearLayout>
```



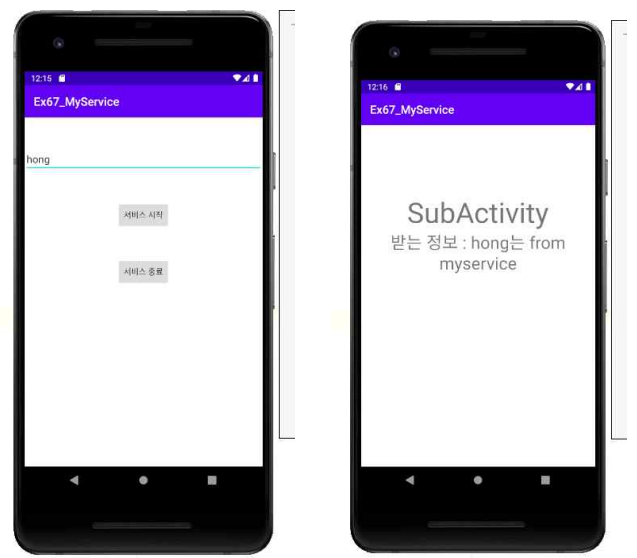
```
public class MainActivity extends AppCompatActivity {
    EditText editText1;
    Button button1, button2;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        editText1 = findViewById(R.id.editText1);
        button1 = findViewById(R.id.button1);
        button2 = findViewById(R.id.button2);

        // 서비스 시작
        button1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String msg = editText1.getText().toString();
                // 서비스 실행 명령어
                Intent intent
                // = new Intent(MainActivity.this, MyService.class);
                = new Intent(getApplicationContext(), MyService.class);
                intent.putExtra("msg",msg);
                startService(intent);
            }
        });

        // 서비스 끝
        button2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                // 서비스 종료 명령어
                Intent intent
                // = new Intent(MainActivity.this, MyService.class);
                = new Intent(getApplicationContext(), MyService.class);
                stopService(intent);
            }
        });

        @Override
        protected void onNewIntent(Intent intent) {
            super.onNewIntent(intent);
            // 서비스에서 넘어온 intent
            String msg = intent.getStringExtra("msg");
            Toast.makeText(this, "서비스에서 넘어온 "+msg, Toast.LENGTH_SHORT).show();
        }
    }
}
```



```

public class MainActivity2 extends AppCompatActivity {
    TextView result;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2);
        result = findViewById(R.id.result);

        // 서비스에서 넘어온 intent 받기
        Intent intent = getIntent();
        String msg = intent.getStringExtra("msg");
        result.append(msg);
    }
}

```

```

// 서비스 클래스를 만들기 위해서는 반드시 Service를 상속 받아야 한다.
// 매니페스트에 등록해야 한다.
// 3가지 메소드를 호출 해서 사용한다.
// MainActivity에 startService(intent)를 시행하면
// 서비스 클래스에서 onCreate() => onStartCommand() 실행됨
// 서비스를 종료할때 onDestroy() 를 실행한다.

public class MyService extends Service {

    @Override
    public void onCreate() {
        super.onCreate();
        Log.d("my", "onCreate()");
    }

    @Override
    public int onStartCommand(Intent intent, int flags, int startId) {
        Log.d("my", "onStartCommand()");
        processCommand(intent);
        return super.onStartCommand(intent, flags, startId);
    }

    public void processCommand(Intent intent){
        String msg = intent.getStringExtra("msg");
        // 약 5초 지연 시킴
        try {
            Thread.sleep(5000);
        } catch (Exception e){

        }

        // MainActivity(메모리에 존재하는 Activity)로
        // 갈 경우 MainActivity의 onNewIntent()로 간다.
        // Intent goIntent = new Intent(getApplicationContext(),
        MainActivity.class);

        // MainActivity2(메모리에 존재하지 않는 Activity)로
        // 갈 경우 MainActivity2의 onCreate()로 간다.
        Intent goIntent = new Intent(getApplicationContext(), MainActivity2.class);

        goIntent.addFlags(Intent.FLAG_ACTIVITY_NEW_TASK |
        Intent.FLAG_ACTIVITY_CLEAR_TOP |
        Intent.FLAG_ACTIVITY_SINGLE_TOP);
        goIntent.putExtra("msg", msg + "는 from myservice");
        startActivity(goIntent);
    }

    // 서비스 종료
    @Override
    public void onDestroy() {
        super.onDestroy();
        Log.d("my", "onDestroy()");
    }

    @Nullable
    @Override
    public IBinder onBind(Intent intent) {
        return null;
    }
}

```

```

<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.ict.ex67_myservice">

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportRtl="true"
        android:theme="@style/AppTheme">
        <activity android:name=".MainActivity2"></activity>
        <activity android:name=".MainActivity">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
        <service android:name=".MyService"
            android:enabled="true"
            android:exported="true" />
    </application>

</manifest>

```