

Lab 3

3.1 Create a simple activity “Activity A”

```
package com.example.pok.week3;
import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.Button;

public class ActivityA extends AppCompatActivity {

    String msg1 = "Lab3";
    String msg2 = "Activity A : ";
    Button button;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_a);
        Log.d(msg1, msg2 + "onCreate");
        button = (Button)findViewById(R.id.button);
        button.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent intent = new Intent(getApplicationContext(),ActivityB.class);
                startActivity(intent);
            }
        });
    }

    @Override
    protected void onStart() {
        super.onStart();
        Log.d(msg1, msg2+"onStart");
    }

    /** Called when the activity has become visible. */
    @Override
    protected void onResume() {
        super.onResume();
        Log.d(msg1, msg2+"onResume");
    }

    /** Called when another activity is taking focus. */
```



```

@Override
protected void onPause() {
    super.onPause();
    Log.d(msg1, msg2+"onPause");
}
/** Called when the activity is no longer visible. */
@Override
protected void onStop() {
    super.onStop();
    Log.d(msg1, msg2+"onStop");
}

@Override
public void onDestroy() {
    super.onDestroy();
    Log.d(msg1, msg2+"onDestroy");
}
}

```

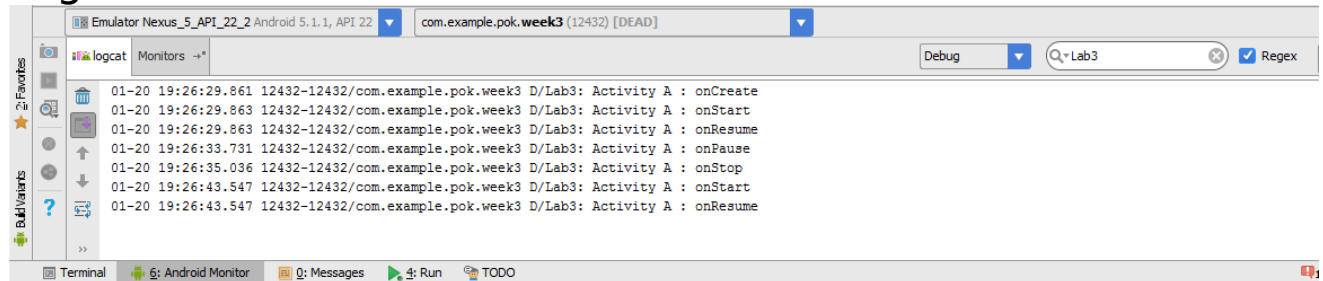
activity_a.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/activity_main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context="com.example.pok.week3.ActivityA">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Activity A"
        android:id="@+id/textView" />
    <Button
        android:text="Button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/textView"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="162dp"
        android:id="@+id/button" />
</RelativeLayout>

```

Log data



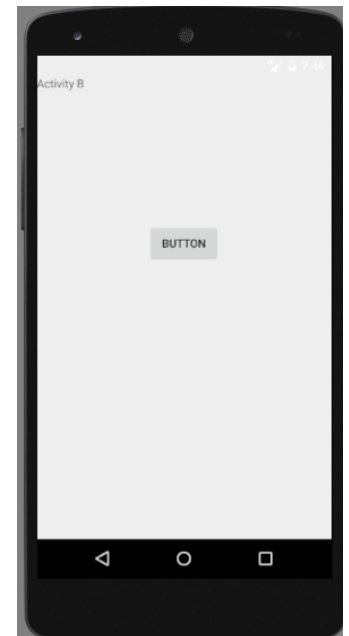
3.2 Create a simple activity “Activity B” called by “Activity A”

```
package com.example.pok.week3;
import android.content.Intent;
import android.os.Bundle;
import android.support.v7.app.AppCompatActivity;
import android.util.Log;
import android.view.View;
import android.widget.Button;
```

```
public class ActivityB extends AppCompatActivity {
    String msg1 = "Lab3";
    String msg2 = "Activity B : ";
    Button button;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_b);
        Log.d(msg1, msg2 + "onCreate");
        button = (Button)findViewById(R.id.button);
        button.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent intent = new Intent(getApplicationContext(), ActivityA.class);
                startActivity(intent);
            }
        });
    }
}
```

```
@Override
protected void onStart() {
    super.onStart();
}
```



```

        Log.d(msg1, msg2+"onStart");
    }
    /** Called when the activity has become visible. */
    @Override
    protected void onResume() {
        super.onResume();
        Log.d(msg1, msg2+"onResume");
    }
    /** Called when another activity is taking focus. */
    @Override
    protected void onPause() {
        super.onPause();
        Log.d(msg1, msg2+"onPause");
    }
    /** Called when the activity is no longer visible. */
    @Override
    protected void onStop() {
        super.onStop();
        Log.d(msg1, msg2+"onStop");
    }
    @Override
    public void onDestroy() {
        super.onDestroy();
        Log.d(msg1, msg2+"onDestroy");
    }
}

```

activity_b.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/activity_main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context="com.example.pok.week3.ActivityA">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"

```

```
    android:text="Activity A"
    android:id="@+id/textView" />
```

```
<Button
    android:text="Button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@+id/textView"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="162dp"
    android:id="@+id/button" />
```

```
</RelativeLayout>
```

Exercise

1. Implement & Experiment Activity C called from Activity B
2. Implement the MapLocation App as shown in Lec3 slide on Page 10.

Insert `<uses-permission android:name="android.permission.INTERNET" />` into AndroidManifest.xml (above `<application>`)

a.