LAB3

3.1 Create a simple activity "Activity A"

```java
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);

        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);
            }
        });

        Log.d(msg1, msg2 + "onCreate");
    }

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

```java
    /** 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");
    }

@Override

protected void onRestart() {

    super.onRestart();

     Log.d(msg1, msg2+"onRestart");
}


}
```

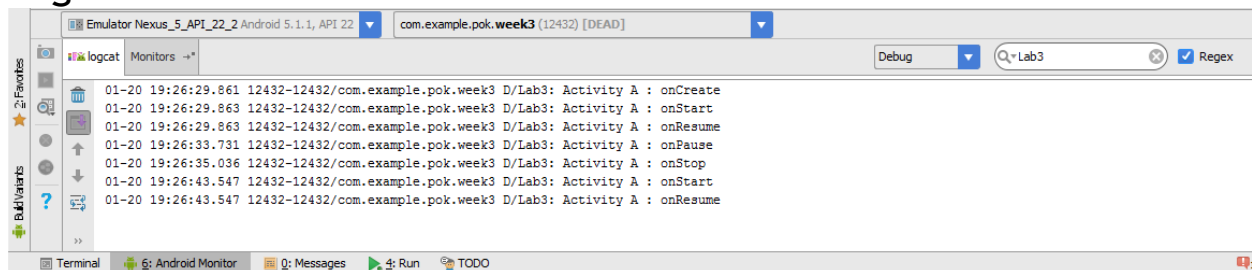activity_a.xml

```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"
```

```xml
    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


```
Emulator Nexus_5_API_22_2 Android 5.1.1, API 22      com.example.pok.week3 (12432) [DEAD]

logcat   Monitors                                                    Debug          Q Lab3                    Regex

01-20 19:26:29.861 12432-12432/com.example.pok.week3 D/Lab3: Activity A : onCreate
01-20 19:26:29.863 12432-12432/com.example.pok.week3 D/Lab3: Activity A : onStart
01-20 19:26:29.863 12432-12432/com.example.pok.week3 D/Lab3: Activity A : onResume
01-20 19:26:33.731 12432-12432/com.example.pok.week3 D/Lab3: Activity A : onPause
01-20 19:26:35.036 12432-12432/com.example.pok.week3 D/Lab3: Activity A : onStop
01-20 19:26:43.547 12432-12432/com.example.pok.week3 D/Lab3: Activity A : onStart
01-20 19:26:43.547 12432-12432/com.example.pok.week3 D/Lab3: Activity A : onResume

Terminal      6: Android Monitor      0: Messages      4: Run      TODO
```

3.2 Create a simple activity "Activity B" called by "Activity A"

```java
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
```

```java
    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
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:="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"
```

```xml
        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 event that makes Activity B's life state to be "onPause".