**Practical 3**

**Aim:** Programming Activities and Fragments.

*Activity\_main.xml*

<?xml version="1.0" encoding="utf-8"?>  
<RelativeLayout 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"  
 tools:context=".MainActivity">  
  
 <Button  
 android:layout\_width="100dp"  
 android:layout\_height="70dp"  
 android:text="@string/click"  
 android:textSize="20sp"  
 android:layout\_centerInParent="true"  
 android:id="@+id/btn\_next" tools:ignore="MissingConstraints" tools:layout\_editor\_absoluteY="311dp"  
 tools:layout\_editor\_absoluteX="155dp"/>  
  
</RelativeLayout>

*MainActivity.kt*

package com.example.activitylifecycle  
  
import android.app.Application  
import android.content.Intent  
import android.support.v7.app.AppCompatActivity  
import android.os.Bundle  
import android.util.Log  
import android.widget.Button  
import android.widget.Toast  
  
  
class MainActivity : AppCompatActivity() {  
 val tag="Activity1"  
  
 override fun onCreate(savedInstanceState: Bundle?) {  
 Log.d(tag,"onCreate")  
 super.onCreate(savedInstanceState)  
 setContentView(R.layout.activity\_main)  
 var btn\_next=findViewById<Button>(R.id.btn\_next)  
 btn\_next.setOnClickListener { var i=Intent(this,MainActivity::class.java)  
 startActivity(i )}  
 Toast.makeText(applicationContext, "Create",Toast.LENGTH\_SHORT).show()  
  
 }  
  
 override fun onStart() {  
 super.onStart()  
 Log.d(tag,"onStart")  
 Toast.makeText(applicationContext, "Start",Toast.LENGTH\_SHORT).show()  
 }  
  
 override fun onResume() {  
 super.onResume()  
 Log.d(tag, "onResume")  
 Toast.makeText(applicationContext, "Resume",Toast.LENGTH\_SHORT).show()  
 }  
  
 override fun onPause() {  
 super.onPause()  
 Log.d(tag,"onPause")  
 Toast.makeText(applicationContext, "Pause",Toast.LENGTH\_SHORT).show()  
 }  
  
 override fun onStop() {  
 super.onStop()  
 Log.d(tag,"onStop")  
 Toast.makeText(applicationContext, "STOP",Toast.LENGTH\_SHORT).show()  
 }  
  
 override fun onDestroy() {  
 super.onDestroy()  
 Log.d(tag,"onDestroy")  
 Toast.makeText(applicationContext, "Destroy",Toast.LENGTH\_SHORT).show()  
  
 }  
  
 override fun onRestart() {  
 super.onRestart()  
 Log.d(tag,"onRestart")  
 Toast.makeText(applicationContext, "Restart",Toast.LENGTH\_SHORT).show()  
 }  
}



