**PROGRAM NO. 4**

**Create Program to Demonstrate Activity Lifecycle.**

**activity\_main.xml**

*<?*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:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".MainActivity">  
<TextView  
android:layout\_width="wrap\_content"  
android:layout\_height="wrap\_content"  
android:text="Activity Lifecycle"  
app:layout\_constraintBottom\_toBottomOf="parent"  
app:layout\_constraintLeft\_toLeftOf="parent"  
app:layout\_constraintRight\_toRightOf="parent"  
app:layout\_constraintTop\_toTopOf="parent" />  
 </androidx.constraintlayout.widget.ConstraintLayout>

**MainActivity.java**

package com.example.activitylifecycle;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.util.Log;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 Log.*d*("Activity\_Lifecycle","onCreate invoked");  
 Toast.*makeText*(MainActivity.this,"Created",Toast.*LENGTH\_LONG*).show();  
 }  
 @Override  
 protected void onStart(){  
 super.onStart();  
 Log.*d*("Activity\_Lifecycle","onStart invoked");  
 Toast.*makeText*(MainActivity.this, "Start", Toast.*LENGTH\_LONG*).show();  
 }  
 @Override  
 protected void onResume(){  
 super.onResume();  
 Log.*d*("Activity\_Lifecycle","onResume invoked");  
 Toast.*makeText*(MainActivity.this,"Resume",Toast.*LENGTH\_LONG*).show();  
 }  
 @Override  
 protected void onPause(){  
 super.onPause();  
 Log.*d*("Activity\_Lifecycle","onPause invoked");  
 Toast.*makeText*(MainActivity.this,"Pause",Toast.*LENGTH\_LONG*).show();  
 }  
 @Override  
 protected void onStop(){  
 super.onStop();  
 Log.*d*("Activity\_Lifecycle","onStop invoked");  
 Toast.*makeText*(MainActivity.this,"Stop",Toast.*LENGTH\_LONG*).show();  
 }  
 @Override  
 protected void onRestart(){  
 super.onRestart();  
 Log.*d*("Activity\_Lifecycle","onRestart invoked");  
 Toast.*makeText*(MainActivity.this,"Restart",Toast.*LENGTH\_LONG*).show();  
 }  
 @Override  
 protected void onDestroy(){  
 super.onDestroy();  
 Log.*d*("Activity\_Lifecycle","onDestroy invoked");  
 Toast.*makeText*(MainActivity.this,"Destroy",Toast.*LENGTH\_LONG*).show();  
 }  
}

**Output**



