**App 7: Develop an Android app to demonstrate Activity Life-Cycle events.**

**MainActivity.java:**

package com.example.activitylifecycle;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.widget.TextView;

public class MainActivity extends AppCompatActivity

{

TextView t1;

String str, s1;

@Override

protected void onCreate(Bundle savedInstanceState)

{

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

t1=findViewById(R.id.t2);

t1.setText("Activity Launched \n OnCreate \n");

}

@Override

protected void onResume()

{

super.onResume();

str=t1.getText().toString();

s1=str+"Activity Resumed \n onResume() \n";

t1.setText(s1);

}

@Override

public void onStart()

{

super.onStart();

str=t1.getText().toString();

s1=str+"Activity Started \nonStart()\n";

t1.setText(s1);

}

@Override

protected void onRestart()

{

super.onRestart();

str=t1.getText().toString();

s1=str+"Activity Restarted \n onRestart()\n";

t1.setText(s1);

}

@Override

protected void onPause()

{

super.onPause();

str=t1.getText().toString();

s1=str+"Activity Paused \n onPause()\n";

t1.setText(s1);

}

@Override

protected void onStop()

{

super.onStop();

str=t1.getText().toString();

s1=str+"Activity Stopped \n onStop()\n";

t1.setText(s1);

}

@Override

protected void onDestroy()

{

super.onDestroy();

str=t1.getText().toString();

s1=str+"Activity Destroyed \n onDestroy()\n";

t1.setText(s1);

}

}

**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:id="@+id/t2"

android:layout\_width="215dp"

android:layout\_height="407dp"

android:layout\_marginStart="95dp"

android:layout\_marginTop="10dp"

android:layout\_marginEnd="98dp"

android:layout\_marginBottom="77dp"

android:gravity="center\_horizontal|center\_vertical"

android:textSize="20dp"

android:textStyle="bold"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toBottomOf="@+id/textView" />

<TextView

android:id="@+id/textView"

android:layout\_width="362dp"

android:layout\_height="62dp"

android:layout\_marginStart="24dp"

android:layout\_marginEnd="25dp"

android:gravity="center\_horizontal|center\_vertical"

android:text="Activity Life-Cycle Stages"

android:textSize="30dp"

android:textStyle="bold"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.0"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.023" />

</androidx.constraintlayout.widget.ConstraintLayout>

**OUTPUT:**

 

