**Assignment-4**

**Aim: Activity life cycle**

**.xml file code:**

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

android:gravity="center"

android:padding="20dp">

<ImageView

android:id="@+id/imageView2"

android:layout\_width="250dp"

android:layout\_height="100dp"

android:layout\_marginBottom="25dp"

android:src="@drawable/ppsu"

android:background="@color/white" />

<Button

android:id="@+id/btnShowToast"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Show Lifecycle" />

</LinearLayout>

**Java file code:**

package com.example.myapplication;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.Toast;

import androidx.activity.EdgeToEdge;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

EdgeToEdge.enable(this);

setContentView(R.layout.activity\_life\_cycle);

Toast.makeText(getApplicationContext(), "onCreate Called", Toast.LENGTH\_LONG).show();

// Find the button and set an OnClickListener

Button btnShowToast = findViewById(R.id.btnShowToast);

btnShowToast.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Toast.makeText(getApplicationContext(), "Button Clicked!", Toast.LENGTH\_SHORT).show();

}

});

}

@Override

protected void onStart() {

super.onStart();

Toast.makeText(getApplicationContext(), "onStart Called", Toast.LENGTH\_LONG).show();

}

@Override

protected void onRestart() {

super.onRestart();

Toast.makeText(getApplicationContext(), "onRestart Called", Toast.LENGTH\_LONG).show();

}

@Override

protected void onResume() {

super.onResume();

Toast.makeText(getApplicationContext(), "onResume Called", Toast.LENGTH\_LONG).show();

}

@Override

protected void onPause() {

super.onPause();

Toast.makeText(getApplicationContext(), "onPause Called", Toast.LENGTH\_LONG).show();

}

@Override

protected void onStop() {

super.onStop();

Toast.makeText(getApplicationContext(), "onStop Called", Toast.LENGTH\_LONG).show();

}

@Override

protected void onDestroy() {

super.onDestroy();

Toast.makeText(getApplicationContext(), "onDestroy Called", Toast.LENGTH\_LONG).show();

}

}

**OUTPUT:**

