Mobile Application Development

Practical 5: Life Cycle Activity

CODE:

Andriod_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">

    <ImageView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:src="@drawable/arjunnn"
        >

        </ImageView>
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.java

```
package com.example.andriodlab5;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Context;
import android.media.MediaPlayer;
import android.os.Bundle;
import android.text.Html;
import android.util.Log;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
    public static class MusicManager implements
MediaPlayer.OnPreparedListener {
        static MediaPlayer mPlayer;
}
```

```
Context context;
        private int mySoundId;
        public MusicManager(Context ctx, int musicID) {
            context = ctx;
            mySoundId = musicID;
            mPlayer = MediaPlayer.create(context, mySoundId);
            mPlayer.setOnPreparedListener(this);
        public void play() {
            mPlayer = MediaPlayer.create(context, mySoundId);
        public void stop() {
            mPlayer.stop();
            mPlayer.release();
        }
        @Override
        public void onPrepared(MediaPlayer player) {
            player.start();
            mPlayer.setLooping(true);
            mPlayer.setVolume(80, 80);
        }
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        System.out.println("Arjun");
        Log.i("Arjun","on Create Called");
        Toast.makeText(getApplicationContext(),Html.fromHtml("<font</pre>
color='yellow' ><b>" + "onCreate Called" + "</b></font>"),
                Toast. LENGTH LONG) . show();
    protected void onStart() {
        super.onStart();
        Log.i("Arjun", "on Start Called");
        Toast.makeText(getApplicationContext(), Html.fromHtml("<font</pre>
color='green' ><b>" + "on Start Called" + "</b></font>"),
                Toast. LENGTH LONG) . show();
        MusicManager mm = new MusicManager(this, R.raw.back);
        mm.play();
    protected void onRestart() {
        super.onRestart();
        Log.i("Arjun", "on Restart Called");
        Toast.makeText(getApplicationContext(), Html.fromHtml("<font
color='pink' ><b>" + "on retsart Called" + "</b></font>"),
                Toast. LENGTH LONG) . show();
        MusicManager mm = new MusicManager(this, R.raw.back2);
```

```
mm.play();
    protected void onResume() {
        super.onResume();
        Log.i("Arjun", "On Resume Called");
        Toast.makeText(getApplicationContext(), Html.fromHtml("<font</pre>
color='black' ><b>" + "on Resume Called" + "</b></font>"),
                Toast. LENGTH LONG) . show();
        MusicManager mm = new MusicManager(this, R.raw.back3);
        mm.play();
    protected void onPause() {
        super.onPause();
        Log.i("Arjun","On Pause Called");
        Toast.makeText(getApplicationContext(), Html.fromHtml("<font</pre>
color='purple' ><b>" + "on Pause Called" + "</b></font>"),
                Toast. LENGTH_LONG) . show();
        MusicManager mm = new MusicManager(this, R.raw.back4);
        mm.play();
    }
    protected void onStop() {
        super.onStop();
        Log.i("Arjun", "On Stop Called");
        Toast.makeText(getApplicationContext(), Html.fromHtml("<font</pre>
color='red' ><b>" + "on Stop Called" + "</b></font>"),
                Toast. LENGTH LONG) . show();
        MusicManager mm = new MusicManager(this, R.raw.back5);
        mm.play();
    protected void onDestroy() {
        super.onDestroy();
        Log.i("Arjun", "On Destroy Called");
        System.out.println("Arjun");
        Toast.makeText(getApplicationContext(),Html.fromHtml("<font</pre>
color='red' ><b>" + "on Destroy Called" + "</b></font>"),
                Toast. LENGTH LONG) . show();
    }
}
```

Output





on Start Called

2021-08-13 19:40:12.782 8181-8181/com.example.all_activity_log l/System.out: Arjun 2021-08-13 19:40:12.782 8181-8181/com.example.all_activity_log l/Arjun: on Create Called 2021-08-13 19:40:12.807 8181-8181/com.example.all_activity_log l/Arjun: on Start Called 2021-08-13 19:40:13.444 8181-8181/com.example.all_activity_log l/Arjun: On Resume Called 2021-08-13 19:41:10.424 8181-8181/com.example.all_activity_log l/Arjun: On Pause Called

2021-08-13 19:41:11.490 8181-8181/com.example.all_activity_log I/Arjun: On Stop Called 2021-08-13 19:41:22.878 8181-8181/com.example.all_activity_log I/Arjun: on Restart Called 2021-08-13 19:41:22.981 8181-8181/com.example.all_activity_log I/Arjun: on Start Called 2021-08-13 19:41:23.035 8181-8181/com.example.all_activity_log I/Arjun: On Resume Called 2021-08-13 19:41:31.671 8181-8181/com.example.all_activity_log I/Arjun: On Pause Called 2021-08-13 19:41:32.205 8181-8181/com.example.all_activity_log I/Arjun: On Stop Called 2021-08-13 19:41:34.974 8181-8181/com.example.all_activity_log I/Arjun: On Destroy Called 2021-08-13 19:41:34.980 8181-8181/com.example.all_activity_log I/System.out: Arjun