Lab Experiment 4

Aim: To study and develop a Service component app.

Code:

ServiceDemo.java

```java
package com.example.list; import
androidx.appcompat.app.AppCompatActivity;

import         android.content.Intent;         import
android.os.Bundle; import android.view.View; import
android.widget.Button;   public   class   ServicesDemo
extends AppCompatActivity {

    Button start; Button
    stop;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_services_demo);

        start = (Button) findViewById(R.id.startbtn1); stop
        = (Button) findViewById(R.id.stopbtn1);

        start.setOnClickListener(new View.OnClickListener() {
            @Override public void
            onClick(View v) {

                Intent startservice = new
Intent(ServicesDemo.this, MyService1.class);
                startService(startservice);

            } });

        stop.setOnClickListener(new View.OnClickListener() {
            @Override public void
            onClick(View v) {

                Intent stopservice = new
Intent(ServicesDemo.this, MyService1.class);
```

```
                stopService(stopservice);


            }
        });


    }
}
```

MyService1.java

```java
package com.example.list;

import android.app.Service; import
android.content.Intent; import
android.media.MediaPlayer; import
android.os.IBinder; import
android.provider.Settings; import
android.widget.Toast; public class
MyService1 extends Service { MediaPlayer
myplayer;

    public MyService1() {
    }

    @Override
    public IBinder onBind(Intent intent) {
        // TODO: Return the communication channel to the
service. throw new UnsupportedOperationException("Not
        yet
implemented");
    }

    @Override
    public int onStartCommand(Intent intent, int flags, int
startId) {

        myplayer = MediaPlayer.create(this, R.raw.ukulele);
        myplayer.start();
        Toast.makeText(this, "A service started",
Toast.LENGTH_SHORT).show(); return
        super.onStartCommand(intent, flags, startId);
    }

    @Override
    public void onDestroy() {
        Toast.makeText(this, "A service stopped",
Toast.LENGTH_SHORT).show(); myplayer.stop();
```
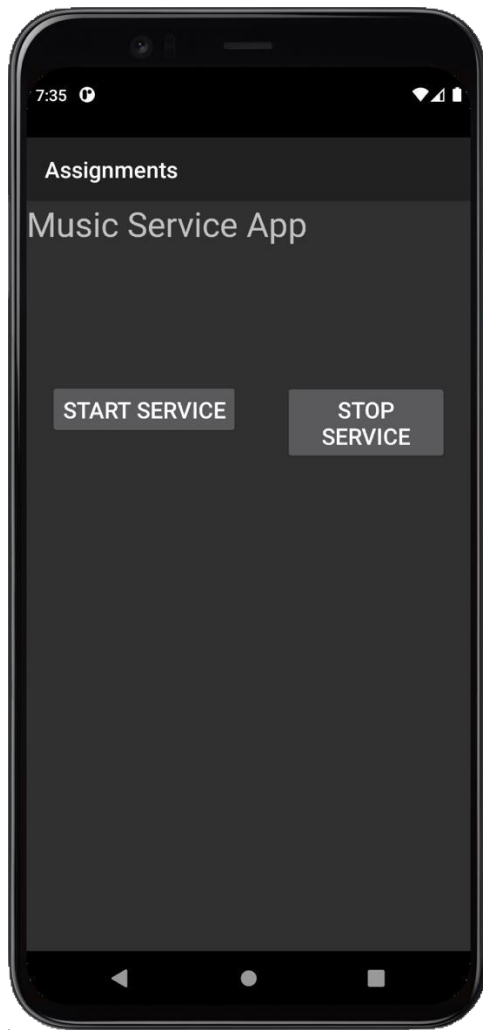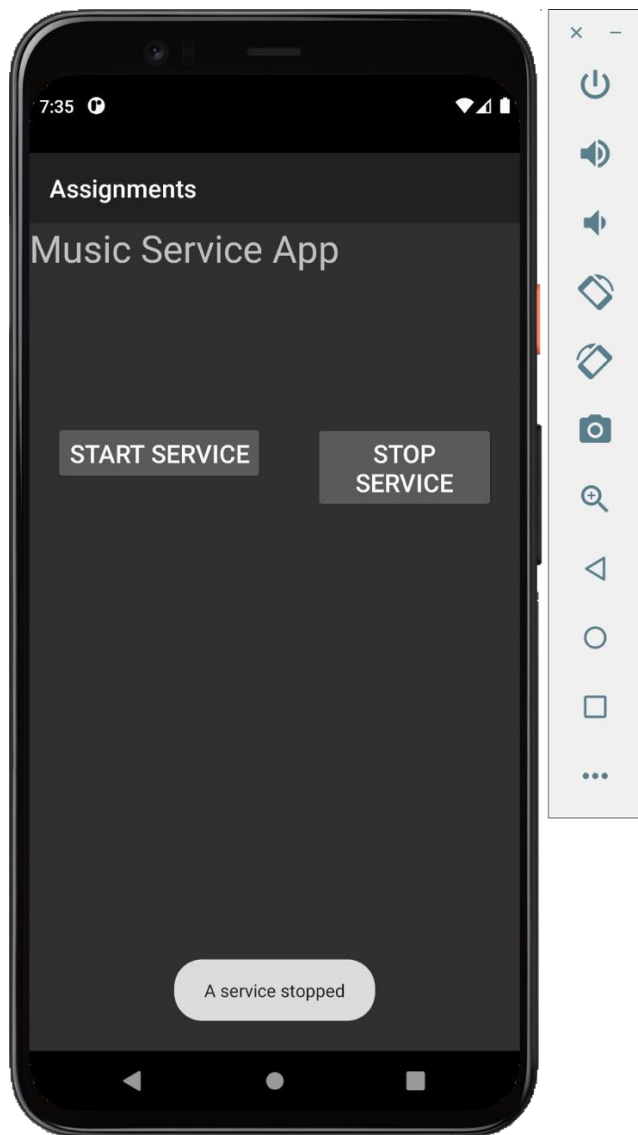
```
    }
}
```

activity_services_demo.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
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"
    android:orientation="vertical"
    tools:context=".ServicesDemo">

    <TextView android:id="@+id/textView2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Music Service App"
        android:textSize="30sp" />

    <LinearLayout android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="100sp"
        android:orientation="horizontal">

        <Button android:id="@+id/startbtn1"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_margin="20sp"
            android:textSize="20sp"
            android:text="Start Service" />

        <Button android:id="@+id/stopbtn1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_margin="20sp"
    android:textSize="20sp" android:text="Stop
    Service" /> </LinearLayout>


</LinearLayout>
```

Conclusion: Service component app is studied and developed.