

Practical No : 07a

Aim : Create the background service android application to play the ringtone/music

activity_main.xml

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

    <Button
        android:id="@+id/button"
        android:layout_width="245dp"
        android:layout_height="76dp"
        android:layout_alignParentStart="true"
        android:layout_alignParentTop="true"
        android:layout_marginStart="93dp"
        android:layout_marginTop="113dp"
        android:onClick="onStartMusic"
        android:text="Start Music"
        android:textSize="24sp" />

    <Button
        android:id="@+id/button2"
        android:layout_width="241dp"
        android:layout_height="74dp"
        android:layout_alignParentStart="true"
        android:layout_alignParentTop="true"
        android:layout_marginStart="93dp"
        android:layout_marginTop="269dp"
        android:onClick="onStopMusic"
        android:text="Stop Music"
        android:textSize="24sp" />
</RelativeLayout>
```

Right Click on project and create new java class, name it as MyService

MyService.java

```
package com.example.p7aservice;

import android.app.Service;
import android.content.Intent;
import android.media.MediaPlayer;
import android.os.IBinder;
import android.widget.Toast;

public class MyService extends Service {
    MediaPlayer myPlayer;

    @Override
```

```

    public IBinder onBind(Intent intent) {
        return null;
    }
    @Override
    public void onCreate() {
        Toast.makeText(this, "Music Service Launched", Toast.LENGTH_LONG).show();
        myPlayer = MediaPlayer.create(this, R.raw.m);
        myPlayer.setLooping(false); // Set looping
    }
    @Override
    public void onStart(Intent intent, int startid) {
        Toast.makeText(this, "Music Service Started",
            Toast.LENGTH_LONG).show();
        myPlayer.start();
    }
    @Override
    public void onDestroy() {
        Toast.makeText(this, "Music Service Stopped",
            Toast.LENGTH_LONG).show();
        myPlayer.stop();
    }
}

```

Update AndroidManifest.xml as below:

AndroidManifest.xml

```

<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools" >
    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:supportRtl="true"
        android:theme="@style/Theme.P7aService"
        tools:targetApi="31" >
        <activity
            android:name=".MainActivity"
            android:exported="true" >
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
        <service
            android:name=".MyService"
            android:enabled="true" />
    </application>
</manifest>

```

MainActivity.java

```
package com.example.p7aservice;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;

public class MainActivity extends AppCompatActivity {

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

    public void onStartMusic(View v)
    {
        startService(new Intent(this, MyService.class));
    }

    public void onStopMusic(View v)
    {
        stopService(new Intent(this, MyService.class));
    }
}
```

Output: