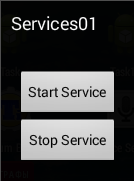
**Task#1:** Create an application which can demonstrate all callbacks of a ***started*** service. Create Started service that use android Media Player class with default Settings of device.



**Solution:**

**XML:**

<?xml version="1.0" encoding="utf-8"?>  
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  
  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".MainActivity"  
 android:background="@color/colorBlack">  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:weightSum="10"  
 android:orientation="vertical">  
   
 <TextView  
 android:id="@+id/title\_text\_view"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Sign In"  
 android:textSize="40dp"  
 android:textColor="@color/colorWhite"  
 android:textAppearance="?android:textAppearanceLarge"  
 android:textStyle="bold"  
 android:textAlignment="center"/>  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="0.5"  
 android:text="(Started Services)"  
 android:textColor="@color/colorWhite"  
 android:textAlignment="center"  
 android:textSize="20dp"/>  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="2"/>  
  
 <Button  
 android:id="@+id/btnStart"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:textAlignment="center"  
 android:layout\_gravity="center"  
 android:textSize="20dp"  
 android:background="@color/colorWhite"  
 android:text=" Start Service "  
 android:width="200dp"  
 android:height="100dp" />  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="0.5"  
 android:textColor="@color/colorWhite"  
 android:textAlignment="center"  
 android:textSize="20dp"/>  
 <Button  
 android:id="@+id/btnStop"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:textAlignment="center"  
 android:layout\_gravity="center"  
 android:textSize="20dp"  
 android:background="@color/colorWhite"  
 android:text=" Stop Service "  
 android:width="200dp"  
 android:height="100dp"/>  
  
 <TextView  
  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Khizar Hayat"  
 android:textSize="20dp"  
 android:textAppearance="?android:textAppearanceLarge"  
 android:textStyle="bold"  
 android:gravity="center"  
 android:textAlignment="center"  
 android:textColor="@color/colorWhite"  
 android:layout\_weight="4"/>  
   
 </LinearLayout>  
  
</RelativeLayout>

**JAVA:**

**(Main)**

public class MainActivity extends AppCompatActivity implements View.OnClickListener {  
  
 private Button start,stop;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_main);  
   
 start = (Button)findViewById(R.id.btnStart);  
 stop = (Button)findViewById(R.id.btnStop);  
  
 start.setOnClickListener(this);  
 stop.setOnClickListener(this);  
 }  
  
 @Override  
 public void onClick(View v) {  
 if(v == start){  
 startService(new Intent(this, MyService.class));  
 }  
 else if (v == stop){  
 stopService(new Intent(this, MyService.class));  
 }  
 }  
}

**(MyService)**

ublic class MyService extends Service {  
  
 private MediaPlayer player;  
 @Nullable  
 @Override  
 public IBinder onBind(Intent intent) {  
 return null;  
 }  
  
 @Override  
 public int onStartCommand(Intent intent, int flags, int startId) {  
 player = MediaPlayer.create(this, Settings.System.DEFAULT\_RINGTONE\_URI);  
 player.setLooping(true);  
 player.start();  
 return START\_STICKY;  
 }  
  
 @Override  
 public void onDestroy() {  
 super.onDestroy();  
 player.stop();  
 }  
}

**Output:**