

## Practical 20

1. Write a Program to display the following output.

Xml Code :

```
<?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=".MainActivity">
    <Button
        android:layout_marginTop="100dp"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/buttonStart"
        android:text="Start Activity"
        android:textSize="30dp"
        android:layout_gravity="center"
        android:backgroundTint="@color/black"
    />
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/buttonStop"
        android:text="Stop Activity"
        android:textSize="30dp"
        android:layout_marginTop="45dp"
        android:layout_gravity="center"
        android:backgroundTint="@color/black"
    />
</LinearLayout>
```

**MyService.java:**

```
package com.example.exp20;
import android.app.Service;
import android.content.Intent;
import android.media.MediaPlayer;
import android.os.IBinder;
import android.provider.Settings;
public class MyService extends Service {
    private MediaPlayer player;
    public MyService() {
    }
```

```
@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;
}
}
```

## Java Code :

```
package com.example.exp20;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity implements View.OnClickListener {
    private Button buttonStart;
    private Button buttonStop;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        buttonStart = (Button) findViewById(R.id.buttonStart);
        buttonStop = (Button) findViewById(R.id.buttonStop);
        buttonStart.setOnClickListener(this);
        buttonStop.setOnClickListener(this);
    }
    @Override
    public void onClick(View view) {
        if (view == buttonStart) {
            startService(new Intent(this, MyService.class));
            Toast.makeText(this, "Activity Started", Toast.LENGTH_SHORT).show();
        } else if (view == buttonStop) {
            stopService(new Intent(this, MyService.class));
            Toast.makeText(this, "Activity Stopped", Toast.LENGTH_SHORT).show();
        }
    }
}
```

Output:

