**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:

Graphical user interface, application

Description automatically generated Graphical user interface, application

Description automatically generated