Create an image file inside drawable named “ic\_music”

Activity\_main.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"** >

<**TextView**

**android:id="@+id/textView1"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:layout\_alignParentTop="true"**

**android:layout\_centerHorizontal="true"**

**android:layout\_marginTop="52dp"**

**android:text="Foreground Music Service"**

/>

<**Button**

**android:id="@+id/button1"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:layout\_below="@+id/textView1"**

**android:layout\_centerHorizontal="true"**

**android:layout\_marginTop="26dp"**

**android:text="Start Foreground Service"** />

<**Button**

**android:id="@+id/button2"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:layout\_below="@+id/button1"**

**android:layout\_centerHorizontal="true"**

**android:layout\_marginTop="35dp"**

**android:text="Stop Foreground Service"** />

</**RelativeLayout**>

MainActivity.java

**package** com.example.jevitha.a24\_4\_foregroundservice\_musicplayer;

**import** android.content.Intent;

**import** android.support.v7.app.AppCompatActivity;

**import** android.os.Bundle;

**import** android.view.View;

**import** android.widget.Button;

**public class** MainActivity **extends** AppCompatActivity **implements** View.OnClickListener {

@Override

**protected void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

setContentView(R.layout.***activity\_main***);

Button startButton = (Button) findViewById(R.id.***button1***);

Button stopButton = (Button) findViewById(R.id.***button2***);

startButton.setOnClickListener(**this**);

stopButton.setOnClickListener(**this**);

}

@Override

**public void** onClick(View v) {

**switch** (v.getId()) {

**case** R.id.***button1***:

Intent startIntent = **new** Intent(MainActivity.**this**,

ForegroundService.**class**);

startIntent.setAction(Constants.ACTION.***STARTFOREGROUND\_ACTION***);

startService(startIntent);

**break**;

**case** R.id.***button2***:

Intent stopIntent = **new** Intent(MainActivity.**this**,

ForegroundService.**class**);

stopIntent.setAction(Constants.ACTION.***STOPFOREGROUND\_ACTION***);

*//stopService(stopIntent);*

startService(stopIntent);

**break**;

**default**:

**break**;

}

}

}

ForegroundService.java

**package** com.example.jevitha.a24\_4\_foregroundservice\_musicplayer;

**import** android.app.Notification;

**import** android.app.NotificationChannel;

**import** android.app.NotificationManager;

**import** android.app.PendingIntent;

**import** android.app.Service;

**import** android.content.Context;

**import** android.content.Intent;

**import** android.graphics.Bitmap;

**import** android.graphics.BitmapFactory;

**import** android.graphics.Color;

**import** android.os.Build;

**import** android.os.IBinder;

**import** android.support.v4.app.NotificationCompat;

**import** android.util.Log;

**public class** ForegroundService **extends** Service {

**public** ForegroundService() {

}

**private static final** String ***LOG\_TAG*** = **"ForegroundService"**;

@Override

**public void** onCreate() {

**super**.onCreate();

Log.*i*(***LOG\_TAG***,**"onCreate"**);

}

@Override

**public int** onStartCommand(Intent intent, **int** flags, **int** startId) {

**if** (intent.getAction().equals(Constants.ACTION.***STARTFOREGROUND\_ACTION***)) {

Log.*i*(***LOG\_TAG***, **"Received Start Foreground Intent "**);

String channel\_Id = **"my\_channel\_01"**;*// The id of the channel.*

CharSequence channelName = **"NotifChannel"**;*// The user-visible name of the channel.*

**int** channelImportance = NotificationManager.***IMPORTANCE\_HIGH***;

NotificationManager manager = **null**;

NotificationChannel channel = **null**;

**if** (Build.VERSION.***SDK\_INT*** >= Build.VERSION\_CODES.***O***) {

manager =

(NotificationManager) getSystemService(Context.***NOTIFICATION\_SERVICE***);

*// Create a notification and set the notification channel.*

channel = **new** NotificationChannel(channel\_Id, channelName,

channelImportance);

channel.setDescription(**"Channel description"**);

channel.enableLights(**true**);

channel.setLightColor(Color.***BLUE***);

manager.createNotificationChannel(channel);

}

Intent notificationIntent = **new** Intent(**this**, MainActivity.**class**);

notificationIntent.setAction(Constants.ACTION.***MAIN\_ACTION***);

notificationIntent.setFlags(Intent.***FLAG\_ACTIVITY\_NEW\_TASK***

| Intent.***FLAG\_ACTIVITY\_CLEAR\_TASK***);

PendingIntent pendingIntent = PendingIntent.*getActivity*(**this**,

0, notificationIntent, 0);

Intent previousIntent = **new** Intent(**this**, ForegroundService.**class**);

previousIntent.setAction(Constants.ACTION.***PREV\_ACTION***);

PendingIntent ppreviousIntent = PendingIntent.*getService*(**this**, 0,

previousIntent, 0);

Intent playIntent = **new** Intent(**this**, ForegroundService.**class**);

playIntent.setAction(Constants.ACTION.***PLAY\_ACTION***);

PendingIntent pplayIntent = PendingIntent.*getService*(**this**, 0,

playIntent, 0);

Intent nextIntent = **new** Intent(**this**, ForegroundService.**class**);

nextIntent.setAction(Constants.ACTION.***NEXT\_ACTION***);

PendingIntent pnextIntent = PendingIntent.*getService*(**this**, 0,

nextIntent, 0);

Bitmap icon = BitmapFactory.*decodeResource*(getResources(), R.drawable.***ic\_music\_1***);

Notification notification = **new** NotificationCompat.Builder(**this**,channel\_Id)

.setContentTitle(**" Music Player"**)

.setTicker(**" Music Player"**)

.setContentText(**"My Music"**)

*// Show controls on lock screen even when user hides sensitive content.*

.setVisibility(NotificationCompat.***VISIBILITY\_PUBLIC***)

.setSmallIcon(R.drawable.***ic\_music***)

.setLargeIcon(

Bitmap.*createScaledBitmap*(icon, 128, 128, **false**))

.setContentIntent(pendingIntent)

.addAction(android.R.drawable.***ic\_media\_previous***,

**"Previous"**, ppreviousIntent)

.addAction(android.R.drawable.***ic\_media\_play***, **"Play"**,

pplayIntent)

.addAction(android.R.drawable.***ic\_media\_next***, **"Next"**,

pnextIntent)

*// Apply the media style template*

*//.setStyle(new android.support.v4.media.app.Notification.MediaStyle()*

*// .setShowActionsInCompactView(1 /\* #1: pause button \*/)*

*// .setMediaSession(mediaSession.getSessionToken()))*

.build();

startForeground(Constants.NOTIFICATION\_ID.***FOREGROUND\_SERVICE***,

notification);

} **else if** (intent.getAction().equals(Constants.ACTION.***PREV\_ACTION***)) {

Log.*i*(***LOG\_TAG***, **"Clicked Previous"**);

} **else if** (intent.getAction().equals(Constants.ACTION.***PLAY\_ACTION***)) {

Log.*i*(***LOG\_TAG***, **"Clicked Play"**);

} **else if** (intent.getAction().equals(Constants.ACTION.***NEXT\_ACTION***)) {

Log.*i*(***LOG\_TAG***, **"Clicked Next"**);

} **else if** (intent.getAction().equals(

Constants.ACTION.***STOPFOREGROUND\_ACTION***)) {

Log.*i*(***LOG\_TAG***, **"Received Stop Foreground Intent"**);

stopForeground(**true**);

stopSelf();

}

**return *START\_STICKY***;

}

@Override

**public void** onDestroy() {

**super**.onDestroy();

Log.*i*(***LOG\_TAG***, **"In onDestroy"**);

}

@Override

**public** IBinder onBind(Intent intent) {

*// Used only in case of bound services.*

**return null**;

}

}

Constants.java

**package** com.example.jevitha.a24\_4\_foregroundservice\_musicplayer;

**public class** Constants {

**public interface** ACTION {

**public static** String ***MAIN\_ACTION*** = **"com.example.foregroundservice.action.main"**;

**public static** String ***PREV\_ACTION*** = **"com.example.foregroundservice.action.prev"**;

**public static** String ***PLAY\_ACTION*** = **"com.example.foregroundservice.action.play"**;

**public static** String ***NEXT\_ACTION*** = **"com.example.foregroundservice.action.next"**;

**public static** String ***STARTFOREGROUND\_ACTION*** = **"com.example.foregroundservice."** +

**"action.startforeground"**;

**public static** String ***STOPFOREGROUND\_ACTION*** = **"com.example.foregroundservice."** +

**"action.stopforeground"**;

}

**public interface** NOTIFICATION\_ID {

**public static int *FOREGROUND\_SERVICE*** = 101;

}

}