



Android Class

#Android Notes

Audio in Android



MediaPlayer Class

- In android, by using **MediaPlayer** class we can easily fetch, decode and play both **audio and video** files.

- Syntax :-

```
MediaPlayer mPlayer = MediaPlayer.create(this, R.raw.audio_file_name);  
mPlayer.start();
```

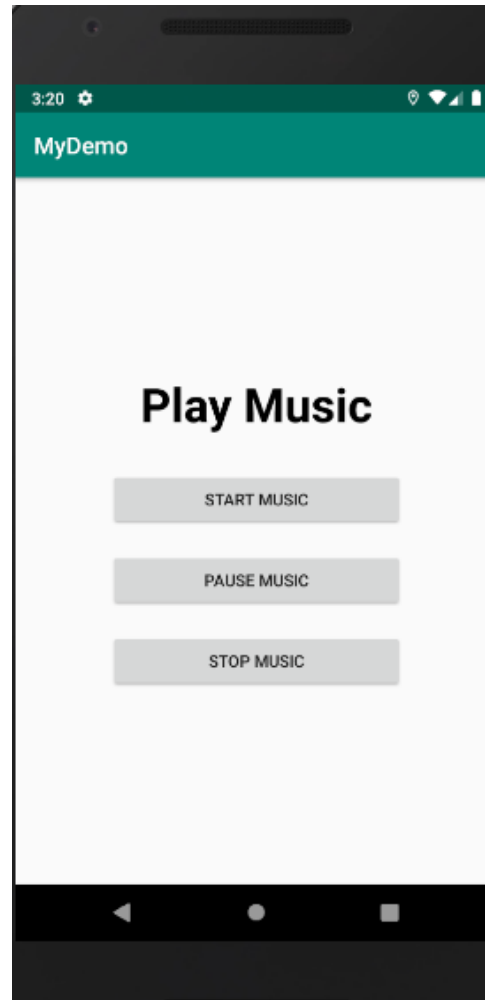


Methods Of MediaPlayer Class

start()	It is used to start playing the audio / video.
stop()	It is used to stop playing the audio / video.
reset()	It is used to reset the MediaPlayer object.
release()	It is used to releases the resources which are associated with MediaPlayer object.
pause()	It is used to pause the song playing.
isPlaying()	It returns true / false to indicate whether song playing or not.
setLooping(boolean looping)	sets the player for looping or non-looping.
setVolume()	It is used to adjust media player volume either up / down.
getDuration()	It is used to get the total time duration of song in milliseconds.



Example



activity_main.xml

MyDemo > app > src > main > res > layout > activity_main.xml

activity_main.xml x MainActivity.java x

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
3   xmlns:app="http://schemas.android.com/apk/res-auto"
4   xmlns:tools="http://schemas.android.com/tools"
5   android:layout_width="match_parent"
6   android:layout_height="match_parent"
7   android:gravity="center"
8   android:orientation="vertical"
9   tools:context=".MainActivity">
10
11   <TextView
12     android:layout_width="match_parent"
13     android:layout_height="wrap_content"
14     android:gravity="center"
15     android:text="Play Music"
16     android:textColor="@android:color/black"
17     android:textSize="40sp"
18     android:textStyle="bold" />
19
20   <Button
21     android:id="@+id/buttonStart"
22     android:layout_width="250dp"
23     android:layout_height="wrap_content"
24     android:layout_gravity="center"
```

Preview

Palette Pixel 28 20% 20%

Play Music

START MUSIC

PAUSE MUSIC

STOP MUSIC

LinearLayout

Design

Text

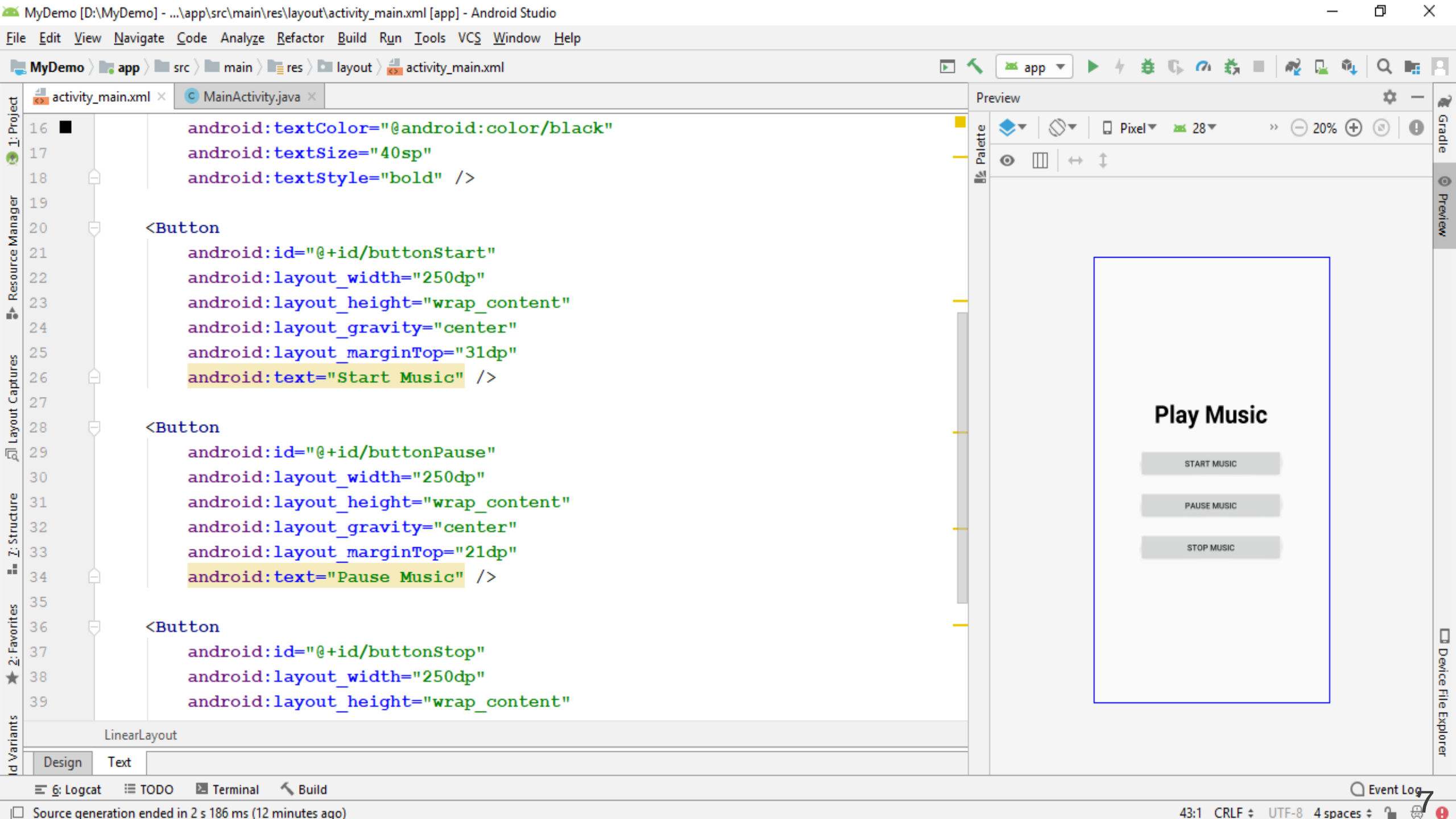
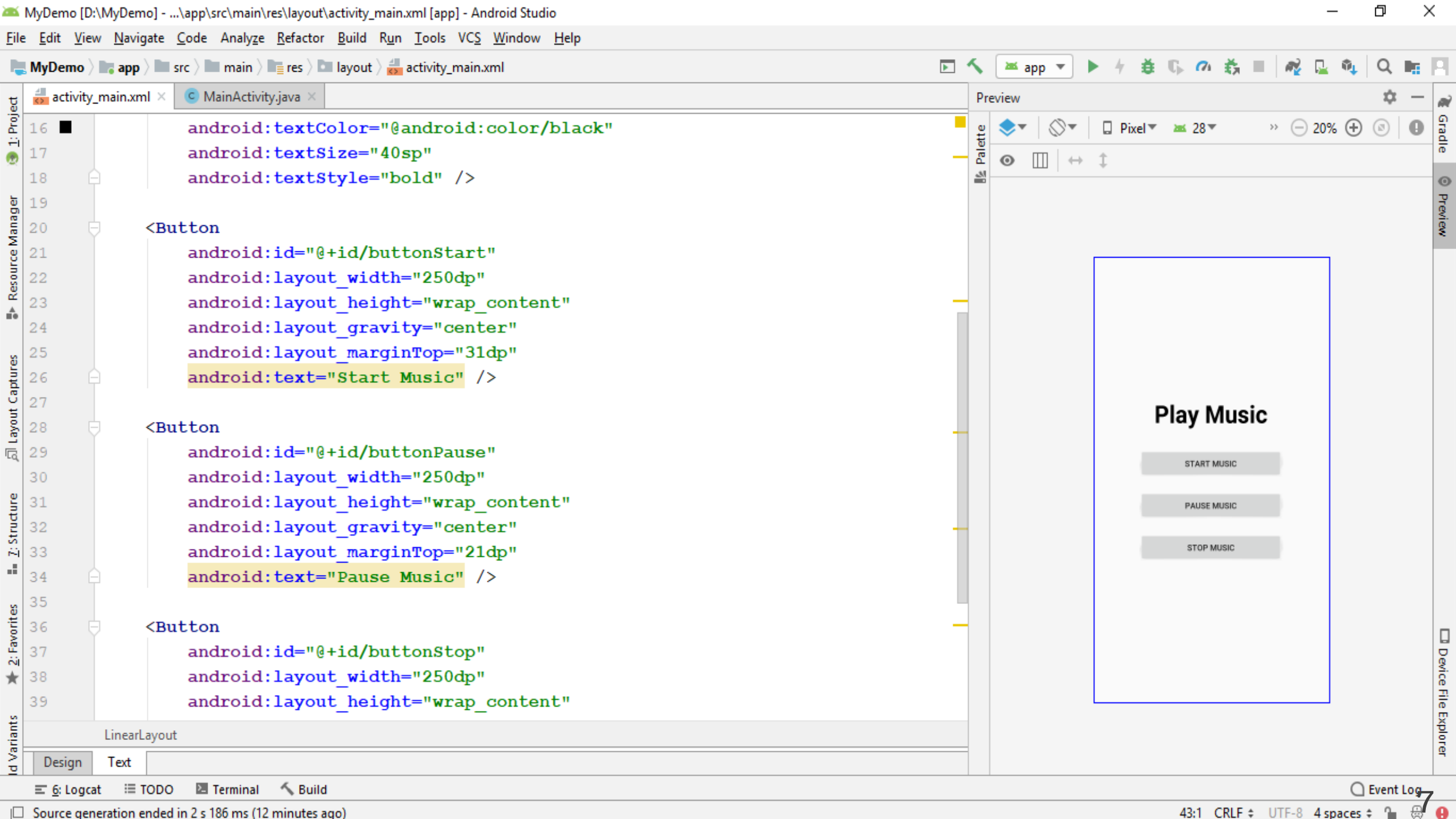
Logcat TODO Terminal Build

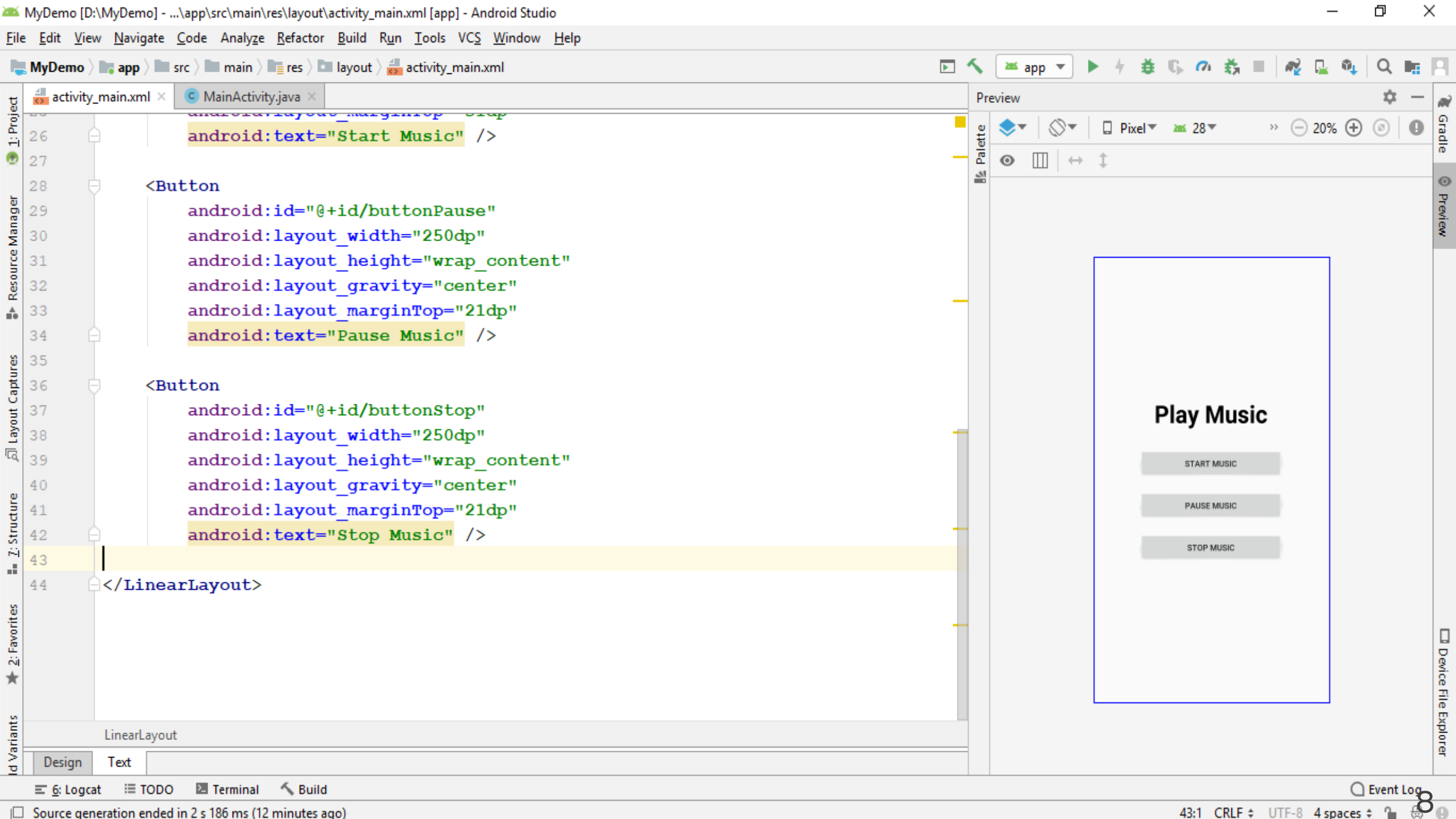
Event Log

Source generation ended in 2 s 186 ms (11 minutes ago)

43:1 CRLF UTF-8 4 spaces

6





1: Project
2: Favorites
3: Variants
4: Layout Captures
5: Resource Manager

activity_main.xml x MainActivity.java x

```
26 <Button
27     android:layout_marginTop="21dp"
28     android:text="Start Music" />
29
30 <Button
31     android:id="@+id/buttonPause"
32     android:layout_width="250dp"
33     android:layout_height="wrap_content"
34     android:layout_gravity="center"
35     android:layout_marginTop="21dp"
36     android:text="Pause Music" />
37
38 <Button
39     android:id="@+id/buttonStop"
40     android:layout_width="250dp"
41     android:layout_height="wrap_content"
42     android:layout_gravity="center"
43     android:layout_marginTop="21dp"
44     android:text="Stop Music" />
45 </LinearLayout>
```

LinearLayout

Design Text

Preview

Pixel 28 20%

Play Music

START MUSIC

PAUSE MUSIC

STOP MUSIC

Device File Explorer

MainActivity.java

MyDemo > app > src > main > java > com > example > akashtechlabs > mydemo > MainActivity

activity_main.xml x MainActivity.java x

```
1 package com.example.akashtechlabs.mydemo;
2
3 import ...
4
5
6
7
8
9
10 public class MainActivity extends AppCompatActivity {
11     Button buttonStart, buttonStop, buttonPause;
12
13     @Override
14     protected void onCreate(Bundle savedInstanceState) {
15         super.onCreate(savedInstanceState);
16         setContentView(R.layout.activity_main);
17
18         buttonStart = findViewById(R.id.buttonStart);
19         buttonStop = findViewById(R.id.buttonStop);
20         buttonPause = findViewById(R.id.buttonPause);
21
22     }
23
24
25 }
26
```

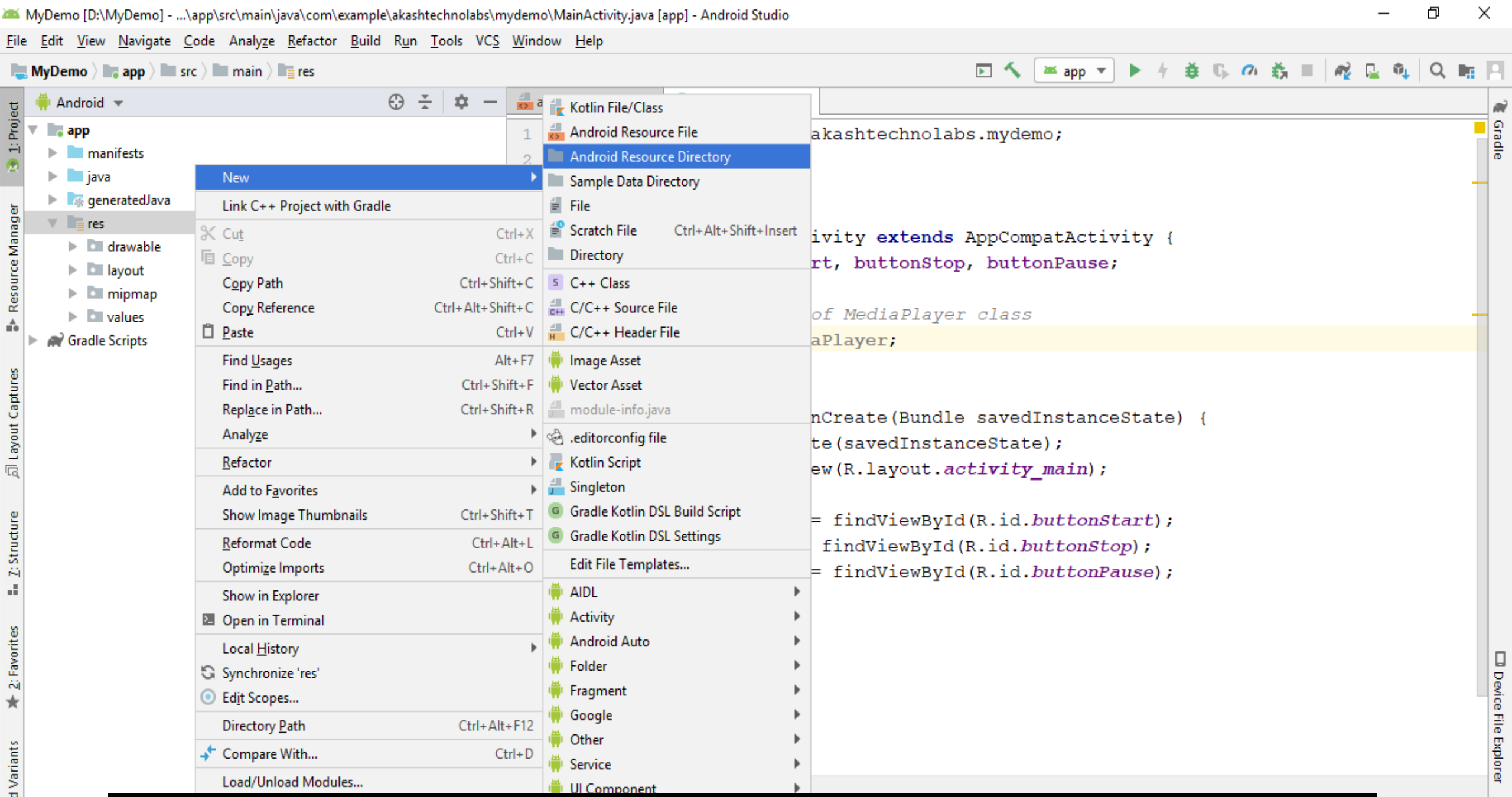
MainActivity > onCreate()

Logcat TODO Terminal Build

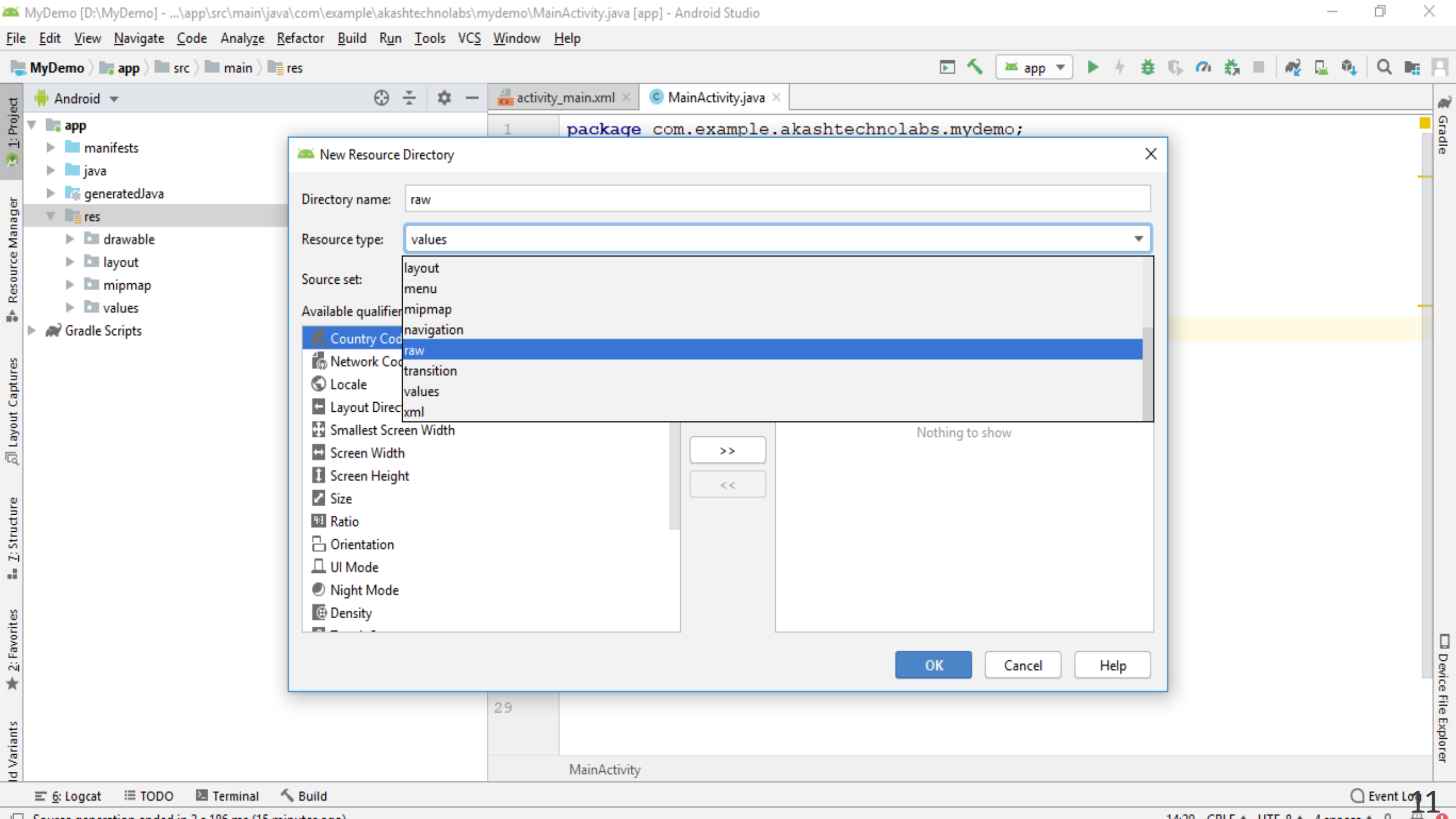
Event Log

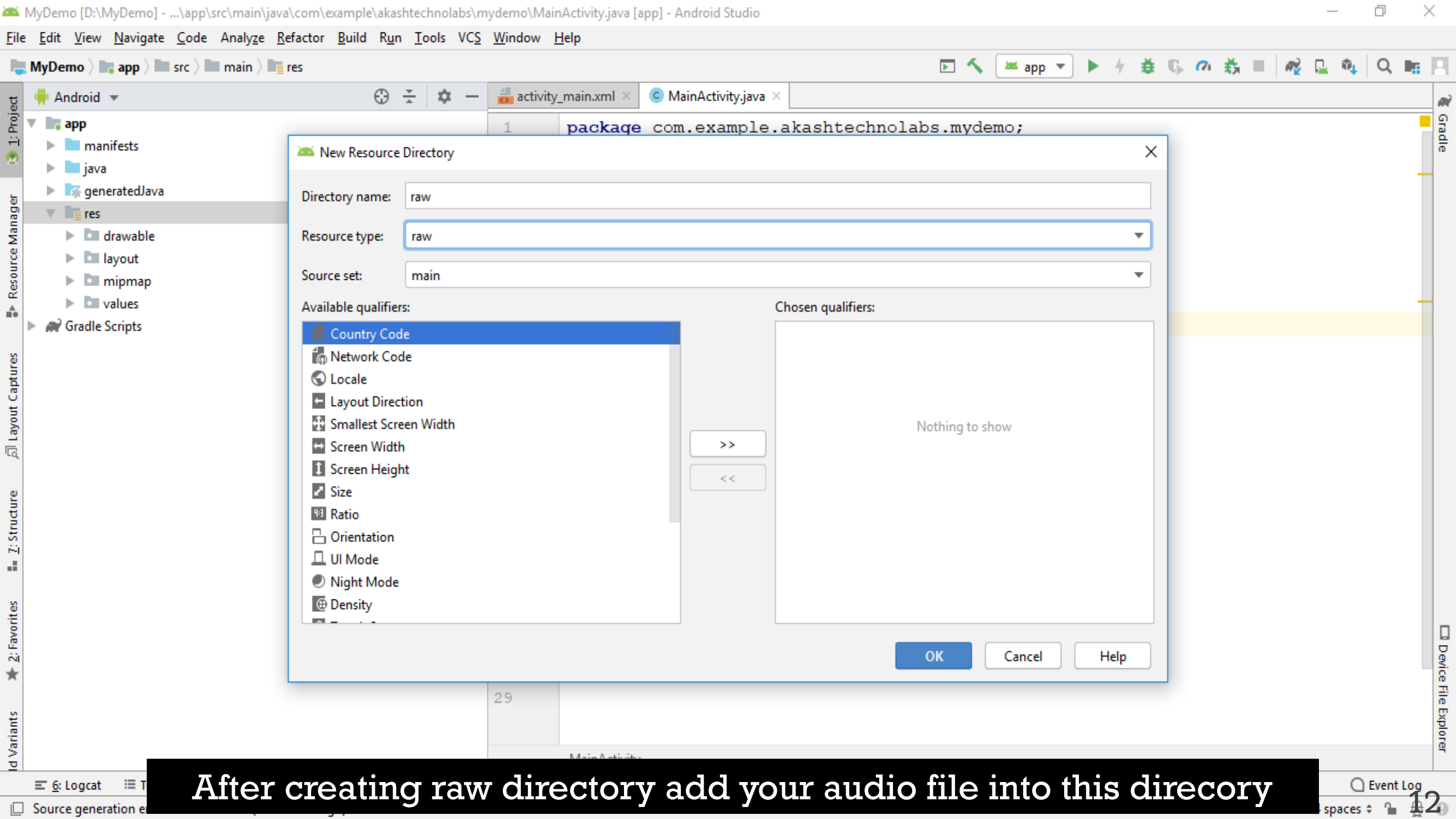
Source generation ended in 2 s 186 ms (13 minutes ago)

20:54 CRIF UTF-8 4 spaces



Add new Android Resource Directory by right clicking on res directory





After creating raw directory add your audio file into this direcorry

```
12 //Create object of MediaPlayer class
```

```
13 MediaPlayer mediaPlayer;
```

```
14 @Override
```

```
15 protected void onCreate(Bundle savedInstanceState) {
```

```
16     super.onCreate(savedInstanceState);
```

```
17     setContentView(R.layout.activity_main);
```

```
18     buttonStart = findViewById(R.id.buttonStart);
```

```
19     buttonStop = findViewById(R.id.buttonStop);
```

```
20     buttonPause = findViewById(R.id.buttonPause);
```

```
21 //create() method is used to give audio name
```

```
22 mediaPlayer = MediaPlayer.create(context, MainActivity.this, R.raw.mysong);
```

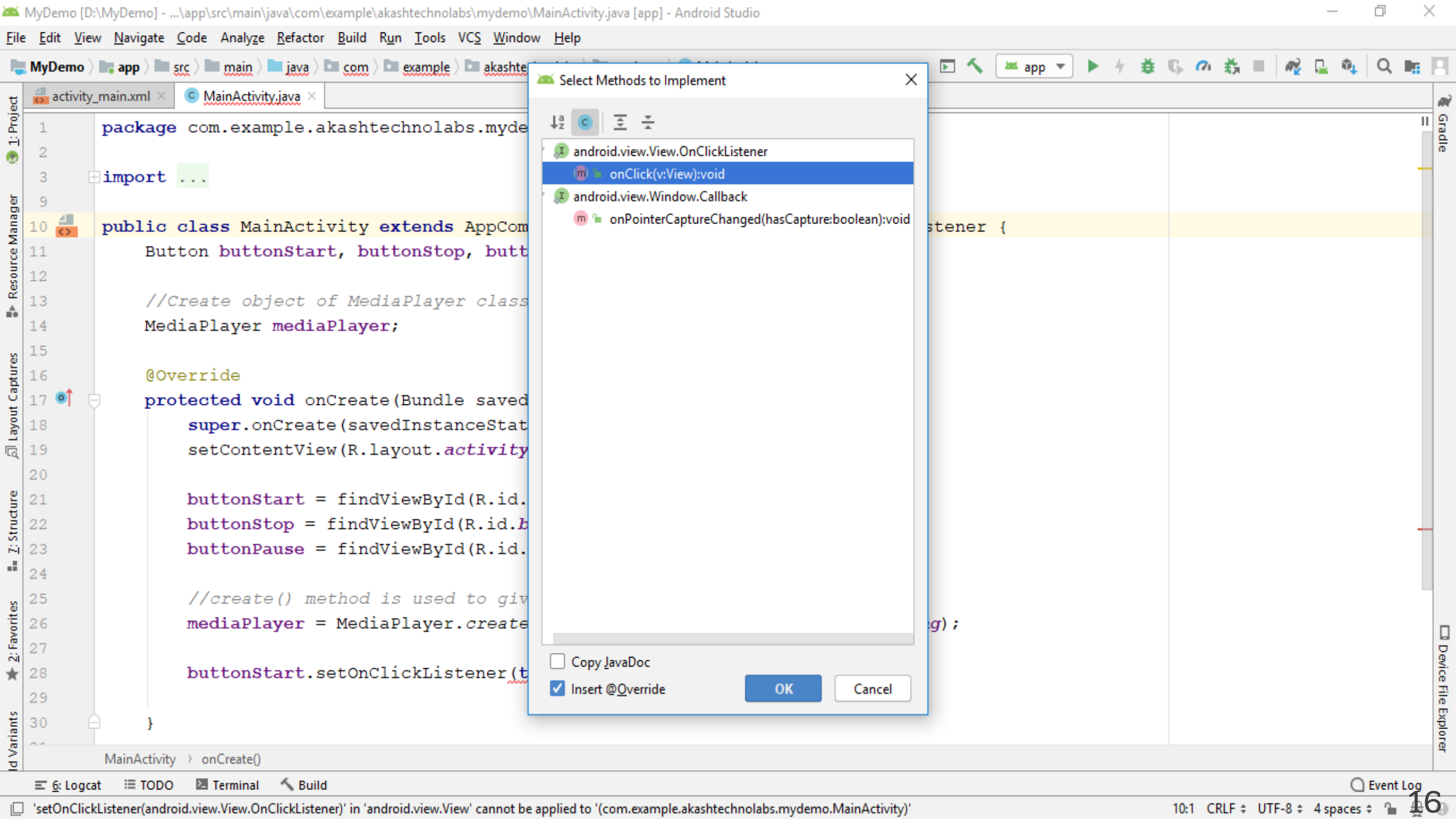
```
23 }
```

```
24 }
```

```
12
13 //Create object of MediaPlayer class
14 MediaPlayer mediaPlayer;
15
16 @Override
17 protected void onCreate(Bundle savedInstanceState) {
18     super.onCreate(savedInstanceState);
19     setContentView(R.layout.activity_main);
20
21     buttonStart = findViewById(R.id.buttonStart);
22     buttonStop = findViewById(R.id.buttonStop);
23     buttonPause = findViewById(R.id.buttonPause);
24
25     //create() method is used to give audio name
26     mediaPlayer = MediaPlayer.create(context: MainActivity.this, R.raw.mysong);
27
28     buttonStart.setOnClickListener(this);
29
30 }
31
32
33 }
34
```

MainActivity > onCreate()

```
12
13 //Create object of MediaPlayer class
14 MediaPlayer mediaPlayer;
15
16 @Override
17 protected void onCreate(Bundle savedInstanceState) {
18     super.onCreate(savedInstanceState);
19     setContentView(R.layout.activity_main);
20
21     buttonStart = findViewById(R.id.buttonStart);
22     buttonStop = findViewById(R.id.buttonStop);
23     buttonPause = findViewById(R.id.buttonPause);
24
25     //create() method is used to give audio name
26     mediaPlayer = MediaPlayer.create(context MainActivity.this, R.raw.mysong);
27
28     buttonStart.setOnClickListener(this);
29
30
31
32
33 }
34
```

MyDemo [D:\MyDemo] - ...\app\src\main\java\com\example\akashtechlabs\mydemo\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

MyDemo > app > src > main > java > com > example > akashtechlabs

activity_main.xml x MainActivity.java x

```
1 package com.example.akashtechlabs.mydemo
2
3 import ...
4
5
6
7
8
9
10 public class MainActivity extends AppCompatActivity {
11     Button buttonStart, buttonStop, buttonPause;
12
13     //Create object of MediaPlayer class
14     MediaPlayer mediaPlayer;
15
16     @Override
17     protected void onCreate(Bundle savedInstanceState) {
18         super.onCreate(savedInstanceState);
19         setContentView(R.layout.activity_main);
20
21         buttonStart = findViewById(R.id.buttonStart);
22         buttonStop = findViewById(R.id.buttonStop);
23         buttonPause = findViewById(R.id.buttonPause);
24
25         //create() method is used to give object of MediaPlayer class
26         mediaPlayer = MediaPlayer.create(this, R.raw.sound1);
27
28         buttonStart.setOnClickListener(new OnClickListener() {
29             @Override
30             public void onClick(View v) {
31                 mediaPlayer.start();
32             }
33         });
34     }
35 }
```

Select Methods to Implement

- android.view.View.OnClickListener
 - onClick(v:View):void
- android.view.Window.Callback
 - onPointerCaptureChanged(hasCapture:boolean):void

☐ Copy JavaDoc
☒ Insert @Override

OK Cancel

MainActivity > onCreate()

'setOnClickListener(android.view.View.OnClickListener)' in 'android.view.View' cannot be applied to '(com.example.akashtechlabs.mydemo.MainActivity)'

10:1 CRLF UTF-8 4 spaces

Event Log

16

1: Project

activity_main.xml x MainActivity.java x

Resource Manager

Layout Captures

7: Structure

2: Favorites

Id Variants

MainActivity > onClick()

18

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38

`super.onCreate(savedInstanceState);``setContentView(R.layout.activity_main);``buttonStart = findViewById(R.id.buttonStart);``buttonStop = findViewById(R.id.buttonStop);``buttonPause = findViewById(R.id.buttonPause);``//create() method is used to give audio name``mediaPlayer = MediaPlayer.create(context: MainActivity.this, R.raw.mysong);``buttonStart.setOnClickListener(this);``}``@Override``public void onClick(View v) {``}`

MainActivity > onClick()

```
18 super.onCreate(savedInstanceState);
19 setContentView(R.layout.activity_main);
20
21 buttonStart = findViewById(R.id.buttonStart);
22 buttonStop = findViewById(R.id.buttonStop);
23 buttonPause = findViewById(R.id.buttonPause);
24
25 //create() method is used to give audio name
26 mediaPlayer = MediaPlayer.create(context MainActivity.this, R.raw.mysong);
27
28 buttonStart.setOnClickListener(this);
29 buttonStop.setOnClickListener(this);
30 buttonPause.setOnClickListener(this);
31
32 }
33
34
35 @Override
36 public void onClick(View v) {
37
38 }
39
40 }
```

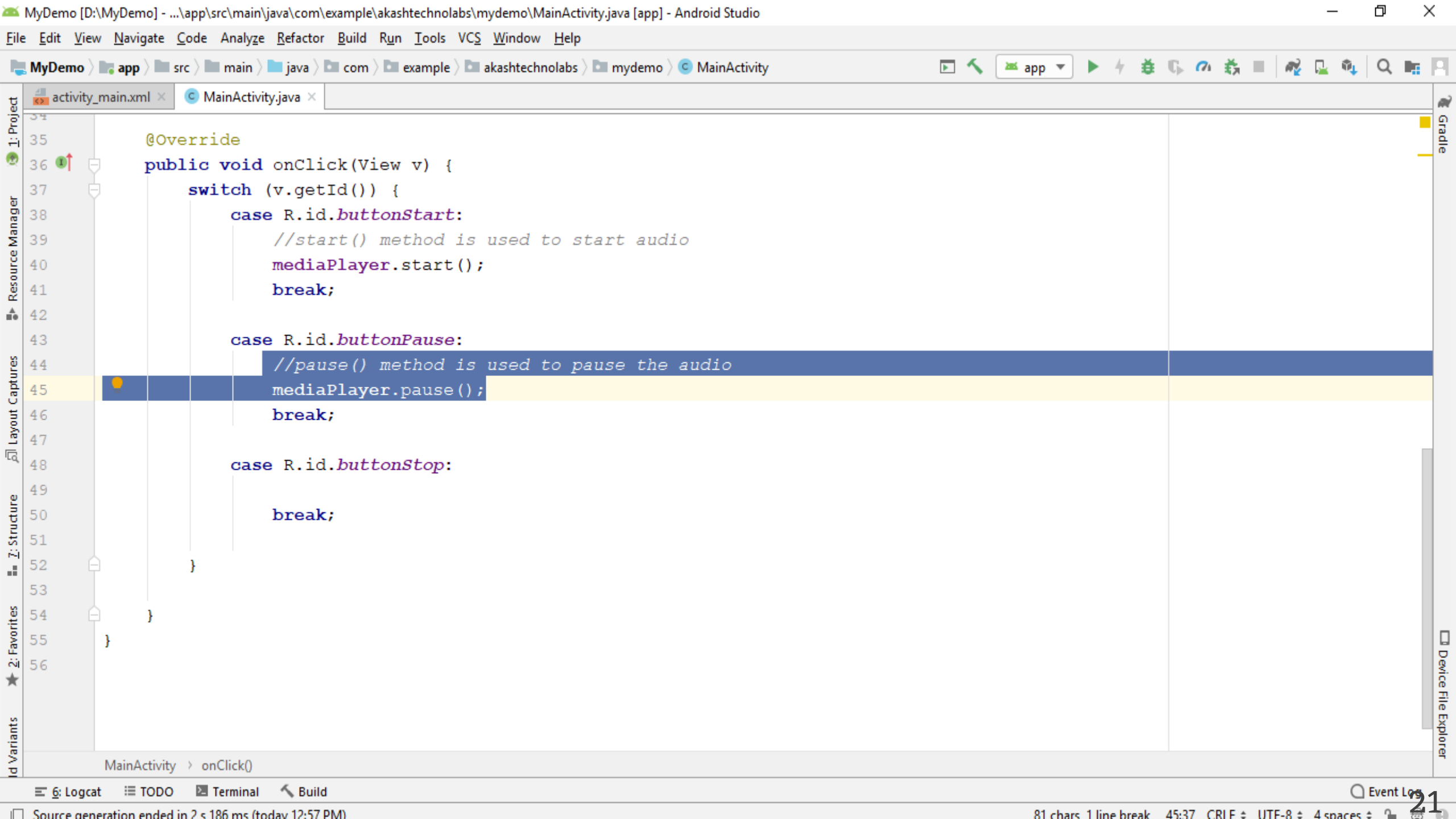
MainActivity > onCreate()

```
32    }
33
34
35    @Override
36    public void onClick(View v) {
37        switch (v.getId())
38        {
39            case R.id.buttonStart:
40
41                break;
42
43            case R.id.buttonPause:
44
45                break;
46
47            case R.id.buttonStop:
48
49                break;
50
51        }
52    }
53 }
54
55
```

MainActivity > onClick()

```
31  
32  
33  
34  
35 @Override  
36 public void onClick(View v) {  
37     switch (v.getId()) {  
38         case R.id.buttonStart:  
39             //start() method is used to start audio  
40             mediaPlayer.start();  
41             break;  
42  
43         case R.id.buttonPause:  
44  
45             break;  
46  
47         case R.id.buttonStop:  
48  
49             break;  
50  
51     }  
52  
53 }  
54  
55
```

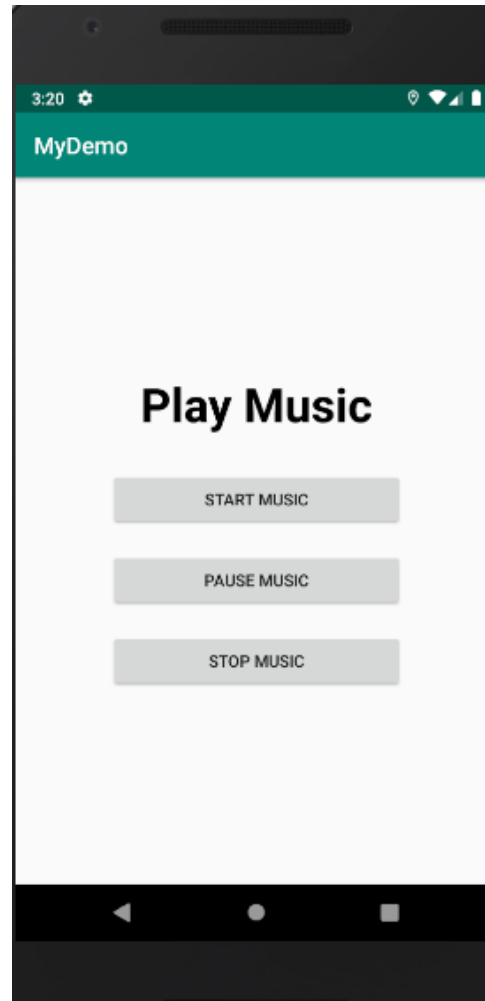
MainActivity > onClick()



```
34
35 @Override
36 public void onClick(View v) {
37     switch (v.getId()) {
38         case R.id.buttonStart:
39             //start() method is used to start audio
40             mediaPlayer.start();
41             break;
42
43         case R.id.buttonPause:
44             //pause() method is used to pause the audio
45             mediaPlayer.pause();
46             break;
47
48         case R.id.buttonStop:
49             //stop() method is used to stop the audio
50             mediaPlayer.stop();
51             break;
52     }
53 }
54
55 }
56
57
```

MainActivity > onClick()

Output



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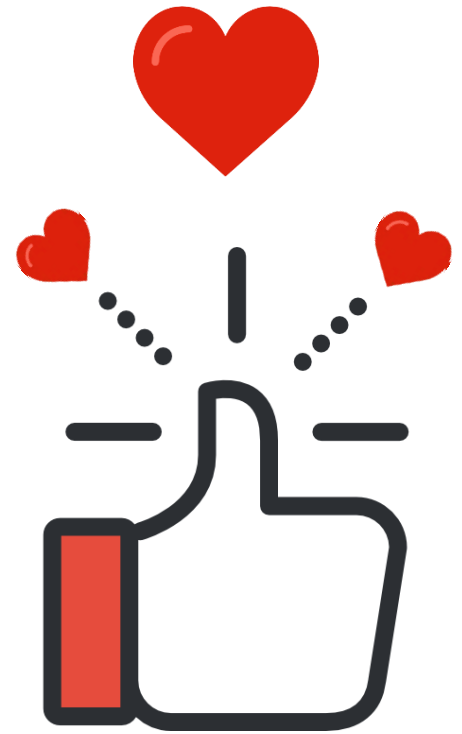
Just Dial

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