## File: mainActivity.java

```
package com.example.aditi.myapplication;
     import android.content.DialogInterface;
     import android.content.Intent;
     import android.support.v7.app.AlertDialog;
     import android.support.v7.app.AppCompatActivity;
     import android.os.Bundle;
     import java.util.*;
     import android.view.View;
     import android.widget.*;
     import org.json.*;
     import org.json.JSONObject;
     import java.io.*;
     public class MainActivity extends AppCompatActivity {
         TextView curScore, totScore, descType, descVal;
         Button hintPrev, hintNext, hintButton, submitButton;
         EditText userInput;
         TextView levels, progressLabel;
         private ProgressBar progressBar = null;
         AlertDialog.Builder dialog;
         String hints[] = {"h1", "h2", "h3", "h4"};
         String desc = "", ans = "ans";
         int h = 0, toth = -1, count = 0, attempts = 0;
         Random r = new Random();
         @Override
         protected void onCreate(Bundle savedInstanceState) {
           super.onCreate(savedInstanceState);
           setContentView(R.layout.activity main);
           dialog = new AlertDialog.Builder(MainActivity.this);
           dialog.setPositiveButton("OK", new
DialogInterface.OnClickListener() {
               @Override
               public void onClick(DialogInterface dialogInterface, int i)
{
               }
           });
           progressBar = (ProgressBar) findViewById(R.id.progress);
           progressLabel = (TextView) findViewById(R.id.progressLabel);
           progressBar.setProgress(25);
           curScore = (TextView) findViewById(R.id.cutScore val);
           totScore = (TextView) findViewById(R.id.totScore val);
           descType = (TextView) findViewById(R.id.desc type);
           levels = (TextView) findViewById(R.id.levels);
           descVal = (TextView) findViewById(R.id.desc val);
```

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hintPrev = (Button) findViewById(R.id.prevHint);
           hintNext = (Button) findViewById(R.id.nextHint);
           hintButton = (Button) findViewById(R.id.hintB);
           submitButton = (Button) findViewById(R.id.submitB);
           userInput = (EditText) findViewById(R.id.user ans);
           getNext();
           hintPrev.setOnClickListener(new View.OnClickListener() {
               @Override
               public void onClick(View view) {
                   if(h==0){
                       descVal.setText(desc);
                       h--;
                       return;
                   if(h>0) {
                       h--;
                       descVal.setText(hints[h]);
                   }
                   else
                       Toast.makeText(MainActivity.this, "Already on first
hint!", Toast.LENGTH SHORT).show();
               }
           });
           hintNext.setOnClickListener(new View.OnClickListener() {
               @Override
               public void onClick(View view) {
                   if(h<toth) {
                       h++;
                       descVal.setText(hints[h]);
                   }
                   else
                       Toast.makeText (MainActivity.this, "Already on last
unlocked hint!", Toast.LENGTH SHORT).show();
               }
           });
           hintButton.setOnClickListener(new View.OnClickListener() {
               @Override
               public void onClick(View view) {
                   if(Integer.parseInt(curScore.getText().toString()) ==
2) {
                       Toast.makeText(MainActivity.this,"No more hints
allowed!", Toast.LENGTH SHORT).show();
                   else{
                       toth++;
                       descVal.setText(hints[toth]);
                       h = toth;
curScore.setText(""+(Integer.parseInt(curScore.getText().toString())-2));
                       Toast.makeText(MainActivity.this, "You have unlocked
new hint!", Toast.LENGTH SHORT).show();
```

```
}
               }
           });
           submitButton.setOnClickListener(new View.OnClickListener() {
               @Override
               public void onClick(View view) {
if(!userInput.getText().toString().trim().equalsIgnoreCase(ans)){
                       if(attempts == 5){
                           //Toast.makeText (MainActivity.this, "All
attempts exhausted!", Toast.LENGTH SHORT).show();
                           dialog.setMessage("The correct answer was :
"+ans).setTitle(" All Attempts exhausted! ");
                           dialog.show();
                           attempts=0;
                           curScore.setText("10");
                           getNext();
                           toth = -1;
                           h = toth;
                           return;
                       }
Toast.makeText(MainActivity.this, "InCorrect!", Toast.LENGTH SHORT).show();
                       attempts++;
                   else {
                       totScore.setText("" +
(Integer.parseInt(totScore.getText().toString()) +
Integer.parseInt(curScore.getText().toString()));
                       curScore.setText("10");
Toast.makeText(MainActivity.this, "Correct!", Toast.LENGTH SHORT).show();
                       getNext();
                       toth = -1;
                       h = toth;
               }
           });
         }
         public void getNext() {
           try{
               JSONArray arr = new JSONArray(loadJSONFromAsset());
               int x = r.nextInt(arr.length());
               JSONObject val = arr.getJSONObject(x);
               desc = val.get("summary").toString();
               descVal.setText(desc);
               ans = val.get("name").toString();
               hints[0] = " Country : "+val.get("country").toString();
               hints[1] = " Genre : "+val.get("genre").toString();
               hints[2] = " Language : "+val.get("lang").toString();
               hints[3] = " Released on "+val.get("release").toString();
           }catch(JSONException e){
               e.printStackTrace();
```

```
int level;
           userInput.setText(null);
           if(count!=0 && count%3==0){
               level = (count/3)+1;
               levels.setText(" Level : "+ level);
               dialog.setMessage("You have successfully cleared level
"+(level-1)).setTitle(" Congratulations...");
               dialog.show();
           count++;
           level = (100*(count))/9;
           progressBar.setProgress(level);
           progressLabel.setText(""+level);
           if(count == 9){
               dialog.setMessage("Your final score is :
"+totScore.getText().toString()).setTitle(" Congratulations!! ");
               dialog.show();
               startActivity(new Intent(MainActivity.this,
GameOver.class));
           }
         public String loadJSONFromAsset() throws JSONException {
           String json = null;
           try {
               InputStream is =
this.getAssets().open("Movies.sample.json");
               int size = is.available();
               byte[] buffer = new byte[size];
               is.read(buffer);
               is.close();
               json = new String(buffer, "UTF-8");
           } catch (IOException ex) {
               ex.printStackTrace();
               return null;
           return json;
     }
File: activity main.xml
     <?xml version="1.0" encoding="utf-8"?>
     <RelativeLayout
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:background="#aff0ff"
         tools:context="com.example.aditi.myapplication.MainActivity">
```

```
android:id="@+id/progress"
    style="?android:attr/progressBarStyleHorizontal"
    android:layout width="210dp"
    android:layout height="10dp"
   android:layout marginRight="23dp"
    android:layout marginEnd="23dp"
    android:layout alignParentTop="true"
    android:layout alignParentRight="true"
   android:layout alignParentEnd="true"
    android:layout marginTop="23dp"
<TextView
   android:layout width="30dp"
   android:layout height="15dp"
    android:textColor="#d39000"
   android:text="0%"
    android:textSize="12dp"
   android:layout marginLeft="84dp"
   android:layout marginStart="84dp"
    android:layout marginTop="10dp"
    android:layout alignLeft="@+id/progress"
   android:layout alignStart="@+id/progress"
   android:id="@+id/progressLabel" />
<TextView
   android:id="@+id/levels"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:textColor="#d39000"
    android:text="Level: 1"
   android:textSize="20dp"
   android:layout alignTop="@+id/textView2"
    android:layout toLeftOf="@+id/progress"
    android:layout toStartOf="@+id/progress"
   android:layout marginRight="30dp"
    android:layout marginEnd="30dp"
    android:textStyle="bold"/>
<TextView
   android:id="@+id/totScore type"
    android:layout width="wrap content"
   android:layout height="wrap content"
    android:layout marginTop="14dp"
    android:textStyle="bold"
    android:text="Total Score"
    android:textSize="20dp"
   android:layout below="@+id/levels"
    android:layout toLeftOf="@+id/hintB"
   android:layout toStartOf="@+id/hintB" />
<TextView
    android:id="@+id/desc type"
    android:layout width="wrap content"
   android:layout height="wrap content"
   android:layout marginTop="22dp"
    android:text="Description"
    android:textStyle="bold"
```

```
android:textSize="16dp"
   android:layout below="@+id/totScore val"
    android:layout alignStart="@+id/totScore type"
   android:layout alignLeft="@+id/totScore type"/>
<TextView
    android:id="@+id/desc val"
    android:layout width="230dp"
   android:layout height="180dp"
   android:text="Description...."
    android:layout below="@+id/desc type"
    android:layout alignStart="@+id/desc type"
   android:layout alignLeft="@+id/desc type"/>
<TextView
   android:id="@+id/totScore val"
   android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout marginTop="16dp"
    android:text="00"
    android:layout below="@+id/totScore type"
   android:layout alignEnd="@+id/totScore type"
    android:layout alignRight="@+id/totScore type"/>
<TextView
    android:id="@+id/cutScore val"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="10"
    android:layout alignBaseline="@+id/totScore val"
   android:layout alignBottom="@+id/totScore val"
    android:layout alignEnd="@+id/curScore type"
    android:layout alignRight="@+id/curScore type"/>
<TextView
    android:id="@+id/curScore type"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="Current Score"
   android:textSize="20dp"
   android:textStyle="bold"
    android:layout alignBaseline="@+id/totScore type"
   android:layout alignBottom="@+id/totScore type"
    android:layout alignParentEnd="true"
    android:layout alignParentRight="true"
    android:layout marginEnd="33dp"
    android:layout marginRight="33dp"/>
<EditText
   android:id="@+id/user ans"
   android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout below="@+id/desc val"
   android:layout centerHorizontal="true"
   android:layout marginTop="20dp"
   android:ems="10"
    android:inputType="textPersonName"
    android:hint="Enter your answer"/>
```

```
<Button
       android:id="@+id/prevHint"
       android:layout width="50dp"
      android:layout height="wrap content"
       android:text="Prev"
      android:layout below="@+id/user ans"
       android:layout marginTop="16dp"
       android:layout toStartOf="@+id/user ans"
       android:layout toLeftOf="@+id/user ans"
       android:onClick="prevHintClicked"/>
   <Button
      android:id="@+id/nextHint"
      android:layout width="50dp"
       android:layout height="wrap content"
      android:text="Next"
       android:layout alignBaseline="@+id/prevHint"
       android:layout alignBottom="@+id/prevHint"
      android:layout toEndOf="@+id/prevHint"
       android:layout toRightOf="@+id/prevHint"/>
   <Button
      android:id="@+id/hintB"
       android:layout width="wrap content"
       android:layout height="wrap content"
       android:text="HINT"
      android:layout alignBaseline="@+id/nextHint"
       android:layout alignBottom="@+id/nextHint"
      android:layout centerHorizontal="true" />
   <Button
       android:id="@+id/submitB"
       android:layout width="wrap content"
      android:layout height="wrap content"
       android:text="SUBMIT"
       android:layout alignBaseline="@+id/hintB"
      android:layout_alignBottom="@+id/hintB"
       android:layout toEndOf="@+id/hintB"
      android:layout toRightOf="@+id/hintB"/>
</RelativeLayout>
```

## File: new.xml

```
<ImageView
    android:id="@+id/level1"
    android:layout_width="36dp"
    android:layout_height="wrap_content"
    app:srcCompat="@drawable/badgeone"
    android:visibility="gone"
    android:layout_alignParentTop="true"
    android:layout_toRightOf="@+id/nextHint"
    android:layout_toEndOf="@+id/nextHint"
    android:layout_above="@+id/progress" />
```

```
<ImageView</pre>
    android:id="@+id/level2"
    android:layout width="36dp"
    android:layout height="wrap content"
    app:srcCompat="@drawable/badgetwo"
    android:visibility="gone"
    android:layout alignParentTop="true"
    android:layout centerHorizontal="true"
    android:layout above="@+id/progress" />
<ImageView</pre>
    android:id="@+id/level3"
    android:layout width="36dp"
    android:layout height="wrap content"
    app:srcCompat="@drawable/badgethree"
    android:visibility="gone"
    android:layout alignBottom="@+id/level2"
    android:layout alignLeft="@+id/curScore type"
    android:layout alignStart="@+id/curScore type" />
```