File: mainActivity.java

```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);
```

```java
            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();
```

```java
                }

            }
        });
        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();
```

```java
            }
            int level;
            userInput.setText(null);
            if(count!=0 && count%3==0){
                level = (count/3)+1;
                levels.setText(" Level : "+ level);
                dialog.setMessage("You have succesfully 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
<?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">


    <ProgressBar
```

```xml
        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"
```

```xml
            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"/>
```

```xml
    <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

```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" />
```

```xml
<ImageView
    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
    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" />
```