Main Activity

**package** cnit355.minyoung.project;  
  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**import** android.content.Intent;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.Button;  
  
**public class** MainActivity **extends** AppCompatActivity {  
  
  
 Button **btnSpin**;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 }  
  
  
 **public void** SpinTheBottle(View view) {  
 Intent mIntent = **new** Intent(**this**, bottle.**class**);  
 startActivity(mIntent);  
 }  
  
 **public void** RandomBox(View view) {  
 Intent mIntent = **new** Intent(**this**, RandomBox.**class**);  
 startActivity(mIntent);  
  
 }  
  
 **public void** TimeAttack(View view) {  
 Intent mIntent = **new** Intent(**this**, TimeAttack.**class**);  
 startActivity(mIntent);  
 }  
  
  
 **public void** King(View view) {  
 Intent mIntent = **new** Intent(**this**, King.**class**);  
 startActivity(mIntent);  
 }  
}

Main Activity XML

*<?***xml version="1.0" encoding="utf-8"***?>*<**androidx.constraintlayout.widget.ConstraintLayout 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="@color/colorBackground"  
 tools:context=".MainActivity"**>  
  
 <**Button  
 android:id="@+id/btnSpin"  
 android:layout\_width="132dp"  
 android:layout\_height="132dp"  
 android:layout\_marginLeft="150dp"  
 android:layout\_marginTop="400dp"  
 android:background="@drawable/corona"  
 android:onClick="SpinTheBottle"  
  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"** />  
  
 <**Button  
 android:id="@+id/button4"  
 android:layout\_width="132dp"  
 android:layout\_height="132dp"  
 android:layout\_marginTop="125dp"  
 android:layout\_marginRight="110dp"  
 android:background="@drawable/box"  
 android:onClick="RandomBox"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"** />  
  
 <**Button  
 android:id="@+id/button3"  
 android:layout\_width="132dp"  
 android:layout\_height="132dp"  
 android:layout\_marginTop="400dp"  
 android:layout\_marginRight="110dp"  
 android:background="@drawable/bomb\_before"  
 android:onClick="TimeAttack"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"** />  
  
 <**Button  
 android:id="@+id/button2"  
 android:layout\_width="132dp"  
 android:layout\_height="132dp"  
 android:layout\_marginLeft="150dp"  
 android:layout\_marginTop="125dp"  
 android:background="@drawable/crown"  
 android:onClick="King"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"** />  
  
 <**TextView  
 android:id="@+id/textView"  
 android:layout\_width="325dp"  
 android:layout\_height="262dp"  
 android:layout\_marginTop="72dp"  
 android:fontFamily="@font/aclonica"  
 android:text="Drinking Mini Game"  
 android:textColor="@color/colorFont"  
 android:textSize="60dp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="1.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"** />  
  
</**androidx.constraintlayout.widget.ConstraintLayout**>

Random Box

**package** cnit355.minyoung.project;  
  
**import** android.content.Intent;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.EditText;  
**import** android.widget.ImageView;  
  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**import** java.util.Random;  
  
  
**public class** RandomBox **extends** AppCompatActivity {  
 Button **back**;  
  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_random\_box***);  
 **back** = (Button) findViewById(R.id.***back***);  
 **final** Button btn\_Open;  
 **final** Button btn\_restart;  
 **final** EditText edit\_Tasks;  
 **final** ImageView image;  
  
 btn\_Open = findViewById(R.id.***btn\_Open***);  
 btn\_restart = findViewById(R.id.***btn\_restart***);  
 edit\_Tasks = findViewById(R.id.***editText***);  
 image = findViewById(R.id.***box***);  
  
  
 **final** String tasks[] = {  
 **"Love shot with the person next to you!"**,  
 **"Dance in front of everyone!"**,  
 **"Take a shot!!"**,  
 **"Sing a song!"**,  
 **"Pick someone to drink"**,  
 **"Drink all the drinks in front of you!"**,  
 **"Drink 2 shots!"**,  
 **"Make someone next to you laugh!"**,  
 **"Dip a snack into a drink and eat it!"**,  
 **"Get ticked for 10 seconds!"**,  
 **"Hug someone next to you!"** };  
  
  
 btn\_Open.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 Random rand = **new** Random();  
 **int** task = rand.nextInt(10);  
  
 edit\_Tasks.setVisibility(View.***VISIBLE***);  
 image.setVisibility(View.***INVISIBLE***);  
 edit\_Tasks.setText(tasks[task]);  
 btn\_restart.setVisibility(View.***VISIBLE***);  
 btn\_Open.setText(**"Reroll"**);  
 }  
 });  
  
 btn\_restart.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view) {  
 btn\_restart.setVisibility(View.***INVISIBLE***);  
 btn\_Open.setText(**"Open Random Box"**);  
 image.setVisibility(View.***VISIBLE***);  
 }  
 });  
  
 **back**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 finish();  
 }  
  
 });  
 }  
  
 }

Random Box XML

*<?***xml version="1.0" encoding="utf-8"***?>*<**androidx.constraintlayout.widget.ConstraintLayout 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="@color/colorBackground"  
 tools:context=".RandomBox"**>  
  
 <**Button  
 android:id="@+id/btn\_Open"  
 android:layout\_width="182dp"  
 android:layout\_height="92dp"  
 android:layout\_marginBottom="108dp"  
 android:background="@color/colorButton"  
 android:text="Open Random Box"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.497"  
 app:layout\_constraintStart\_toStartOf="parent"** />  
  
 <**EditText  
 android:id="@+id/editText"  
 android:layout\_width="377dp"  
 android:layout\_height="66dp"  
 android:ems="10"  
 android:fontFamily="@font/aclonica"  
 android:gravity="center"  
 android:inputType="textPersonName"  
 android:text="Name"  
 android:visibility="invisible"  
 app:layout\_constraintBottom\_toTopOf="@+id/btn\_Open"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"** />  
  
 <**ImageView  
 android:id="@+id/box"  
 android:layout\_width="360dp"  
 android:layout\_height="438dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.49"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.276"  
 app:srcCompat="@drawable/randombox"** />  
  
 <**Button  
 android:id="@+id/btn\_restart"  
 android:layout\_width="143dp"  
 android:layout\_height="62dp"  
 android:layout\_marginBottom="16dp"  
 android:background="@color/colorButton"  
 android:text="Restart"  
 android:visibility="invisible"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.104"  
 app:layout\_constraintStart\_toStartOf="parent"** />  
  
 <**Button  
 android:id="@+id/back"  
 android:layout\_width="139dp"  
 android:layout\_height="58dp"  
 android:layout\_marginBottom="20dp"  
 android:background="@color/colorButton"  
 android:text="Back"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.871"  
 app:layout\_constraintStart\_toStartOf="parent"** />  
  
</**androidx.constraintlayout.widget.ConstraintLayout**>

Spin bottle

**package** cnit355.minyoung.project;  
  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**import** android.content.Intent;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.view.animation.AccelerateDecelerateInterpolator;  
**import** android.view.animation.Animation;  
**import** android.view.animation.RotateAnimation;  
**import** android.widget.Button;  
**import** android.widget.ImageView;  
  
**import** java.util.Random;  
  
*// Part of code source https://stackoverflow.com/questions/15083811/programmatically-rotate-drawable-or-view  
// Part of code source https://stackoverflow.com/questions/8981845/android-rotate-image-in-imageview-by-an-angle***public class** bottle **extends** AppCompatActivity {  
 ImageView **bottle**;  
 Button **Spin**;  
 Random **r**;  
 **int angle**;  
 Button **back**;  
 **boolean restart** = **false**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_bottle***);  
 Intent mIntent = getIntent();  
 **if** (mIntent == **null**) {  
 **return**;  
 }  
  
 **r** = **new** Random();  
  
 **bottle** = (ImageView) findViewById(R.id.***bottle***);  
  
  
 **bottle** = (ImageView) findViewById(R.id.***bottle***);  
 **Spin** = (Button) findViewById(R.id.***Spin***);  
 **back** = (Button) findViewById(R.id.***back***);  
  
 **Spin**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 **if** (**restart**) {  
 **int** temp = **angle** % 360;  
 RotateAnimation rotate = **new** RotateAnimation(temp, 0, RotateAnimation.***RELATIVE\_TO\_SELF***, 0.5f, RotateAnimation.***RELATIVE\_TO\_SELF***, 0.5f);  
 rotate.setFillAfter(**true**);  
 **bottle**.startAnimation(rotate);  
 **restart** = **false**;  
 **Spin**.setText(**"SPIN"**);  
 } **else** {  
 **angle** = **r**.nextInt(2000) + 360;  
 RotateAnimation rotate = **new** RotateAnimation(0, **angle**, RotateAnimation.***RELATIVE\_TO\_SELF***, 0.5f, RotateAnimation.***RELATIVE\_TO\_SELF***, 0.5f);  
 rotate.setFillAfter(**true**);  
 rotate.setDuration(3600);  
 **bottle**.startAnimation(rotate);  
  
  
 **restart** = **true**;  
 **Spin**.setText(**"RESET"**);  
 }  
 }  
  
 });  
 **back**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 finish();  
 }  
  
 });  
 }  
}

Spin bottle XML

*<?***xml version="1.0" encoding="utf-8"***?>*<**androidx.constraintlayout.widget.ConstraintLayout 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:duration ="1000"  
 android:background="@color/colorBackground"  
 tools:context=".bottle"**>  
  
 <**ImageView  
 android:id="@+id/bottle"  
 android:layout\_width="408dp"  
 android:layout\_height="566dp"  
 android:layout\_marginBottom="160dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:srcCompat="@drawable/corona"** />  
  
 <**TextView  
 android:id="@+id/textView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="32dp"  
 android:fontFamily="@font/aclonica"  
 android:text="SPIN THE BOTTLE!"  
 android:textColor="@color/colorFont"  
 android:textSize="20dp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.106"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="@+id/bottle"** />  
  
 <**Button  
 android:id="@+id/Spin"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginBottom="92dp"  
 android:background="@color/colorButton"  
 android:text="SPIN"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"** />  
  
 <**Button  
 android:id="@+id/back"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginBottom="16dp"  
 android:background="@color/colorButton"  
 android:text="Back"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.498"  
 app:layout\_constraintStart\_toStartOf="parent"  
 tools:ignore="OnClick"** />  
  
</**androidx.constraintlayout.widget.ConstraintLayout**>

Time Attack

**package** cnit355.minyoung.project;  
  
**import** androidx.appcompat.app.AppCompatActivity;  
**import** androidx.core.app.NotificationCompat;  
**import** androidx.core.content.res.ResourcesCompat;  
  
**import** android.app.Notification;  
**import** android.app.NotificationManager;  
**import** android.content.res.AssetManager;  
**import** android.graphics.drawable.Drawable;  
**import** android.media.MediaPlayer;  
**import** android.media.Ringtone;  
**import** android.media.RingtoneManager;  
**import** android.net.Uri;  
**import** android.os.Bundle;  
**import** android.os.CountDownTimer;  
**import** android.os.Vibrator;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.ImageView;  
**import** android.widget.TextView;  
  
**import** java.io.FileInputStream;  
**import** java.io.IOException;  
**import** java.util.Locale;  
  
  
  
**public class** TimeAttack **extends** AppCompatActivity {  
 **private static final long *START\_TIME\_IN\_MILLIS*** = 60000;  
  
 **private** TextView **mTextViewCountDown**;  
 **private** Button **mButtonStartPause**;  
 **private** Button **mButtonReset**;  
 **private** ImageView **mImageView**;  
 **private** CountDownTimer **mCountDownTimer**;  
  
 **private boolean mTimerRunning**;  
  
 **private long mTimeLeftInMillis** = ***START\_TIME\_IN\_MILLIS***;  
  
 MediaPlayer **player**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_time\_attack***);  
  
  
 **player** = MediaPlayer.*create*(TimeAttack.**this**,R.raw.***alert***);  
  
 **mTextViewCountDown** = findViewById(R.id.***text\_view\_countdown***);  
  
 **mButtonStartPause** = findViewById(R.id.***button\_start\_pause***);  
  
 **mButtonReset** = findViewById(R.id.***button\_reset***);  
  
 **mButtonStartPause**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view) {  
 **if**(**mTimerRunning**){  
 pauseTimer();  
 }**else**{  
 startTimer();  
 }  
 }  
 });  
  
  
 **mButtonReset**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view) {  
 resetTimer();  
 }  
 });  
  
 updateCountDownText();  
  
 **mImageView** = findViewById(R.id.***imageView***);  
  
  
 }  
  
  
 **private void** startTimer(){  
 **mCountDownTimer** = **new** CountDownTimer(**mTimeLeftInMillis**, 1000) {  
 @Override  
 **public void** onTick(**long** millisUntilFinished) {  
 **mTimeLeftInMillis** = millisUntilFinished;  
 updateCountDownText();  
 }  
  
 @Override  
 **public void** onFinish() {  
 **mTimerRunning** = **false**;  
 **mButtonStartPause**.setText(**"start"**);  
 String ENDtimeLeftFormatted = String.*format*(Locale.*getDefault*(),**"%02d:%02d"**, 0, 0);  
 **mTextViewCountDown**.setText(ENDtimeLeftFormatted);  
 **mButtonStartPause**.setVisibility(View.***INVISIBLE***);  
 **mButtonReset**.setVisibility(View.***VISIBLE***);  
 Drawable myDrawable = ResourcesCompat.*getDrawable*(getResources(),R.drawable.***bomb\_after***,**null**);  
 **mImageView**.setImageDrawable(myDrawable);  
  
 Vibrator vib = (Vibrator) getSystemService(***VIBRATOR\_SERVICE***);  
 vib.vibrate(1500); *//add vibration* **player**.start();  
 **player**.setLooping(**true**); *//add alert sound* }  
 }.start();  
  
 **mTimerRunning** = **true**;  
 **mButtonStartPause**.setText(**"Pause"**);  
 **mButtonReset**.setVisibility(View.***INVISIBLE***);  
 }  
  
 **private void** pauseTimer(){  
 **mCountDownTimer**.cancel();  
 **mTimerRunning** = **false**;  
 **mButtonStartPause**.setText(**"Start"**);  
 **mButtonReset**.setVisibility(View.***VISIBLE***);  
 }  
 **private void** resetTimer(){  
 **mTimeLeftInMillis** = ***START\_TIME\_IN\_MILLIS***;  
 updateCountDownText();  
 **mButtonReset**.setVisibility(View.***INVISIBLE***);  
 **mButtonStartPause**.setVisibility(View.***VISIBLE***);  
 Drawable myDrawable2 = ResourcesCompat.*getDrawable*(getResources(),R.drawable.***bomb\_before***,**null**);  
 **mImageView**.setImageDrawable(myDrawable2);  
 **player**.stop();  
 }  
  
 **private void** updateCountDownText(){  
 **int** minutes = (**int**)(**mTimeLeftInMillis**/1000) / 60;  
 **int** seconds = (**int**)(**mTimeLeftInMillis**/1000) % 60;  
  
  
 String timeLeftFormatted = String.*format*(Locale.*getDefault*(),**"%02d:%02d"**, minutes, seconds);  
 **mTextViewCountDown**.setText(timeLeftFormatted);  
 }  
  
  
 }

Time Attack 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="@color/colorBackground"  
 tools:context=".TimeAttack"**>  
  
 <**TextView  
 android:id="@+id/text\_view\_countdown"  
  
 android:layout\_width="172dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentTop="true"  
 android:layout\_centerInParent="true"  
 android:layout\_marginStart="132dp"  
 android:layout\_marginTop="134dp"  
 android:text="00:00"  
 android:textColor="@color/colorFont"  
 android:textSize="60sp"** />  
  
 <**Button  
 android:id="@+id/button\_start\_pause"  
 android:layout\_width="134dp"  
 android:layout\_height="109dp"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginStart="139dp"  
 android:background="@color/colorButton"  
 android:layout\_marginBottom="103dp"  
 android:text="Start Bomb"** />  
  
 <**Button  
 android:id="@+id/button\_reset"  
 android:layout\_width="114dp"  
 android:layout\_height="71dp"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginEnd="55dp"  
 android:layout\_marginBottom="29dp"  
 android:background="@color/colorButton"  
 android:text="Reset"  
 android:visibility="invisible"  
 tools:visibility="visible"** />  
  
 <**TextView  
 android:id="@+id/textView"  
 android:layout\_width="280dp"  
 android:layout\_height="67dp"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentTop="true"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginStart="69dp"  
 android:layout\_marginTop="50dp"  
 android:fontFamily="@font/aclonica"  
 android:text="ANSWER THE QUESTION IN TIME AND HAND THE BOMB TO THE NEXT PERSON!"  
 android:textColor="@color/colorFont"  
 android:textSize="20dp"** />  
  
 <**ImageView  
 android:id="@+id/imageView"  
 android:layout\_width="265dp"  
 android:layout\_height="201dp"  
 android:layout\_alignParentTop="true"  
 android:layout\_alignParentEnd="true"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="235dp"  
 android:layout\_marginEnd="50dp"  
 app:srcCompat="@drawable/bomb\_before"** />  
  
</**RelativeLayout**>

King

**package** cnit355.minyoung.project;  
  
**import** androidx.appcompat.app.AppCompatActivity;  
**import** androidx.core.content.res.ResourcesCompat;  
  
**import** android.content.Intent;  
**import** android.graphics.drawable.Drawable;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.ImageButton;  
**import** android.widget.TextView;  
**import** android.widget.Toast;  
  
  
**public class** King **extends** AppCompatActivity {  
 **public void** Again(View view){  
  
 Intent intent = getIntent();  
 finish();  
 startActivity(intent);  
 }  
 **int num** = ((**int**) (Math.*random*() \* 12)) + 1;  
  
 Drawable **mDrawable**;  
 ImageButton **mButton5**;  
 ImageButton **mButton6**;  
 ImageButton **mButton7**;  
 ImageButton **mButton8**;  
 ImageButton **mButton9**;  
 ImageButton **mButton10**;  
 ImageButton **mButton11**;  
 ImageButton **mButton12**;  
 ImageButton **mButton13**;  
 ImageButton **mButton14**;  
 ImageButton **mButton15**;  
 ImageButton **mButton16**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_king***);  
  
 **mButton5** =findViewById(R.id.***button5***);  
 **mButton6**=findViewById(R.id.***button6***);  
 **mButton7**=findViewById(R.id.***button7***);  
 **mButton8**=findViewById(R.id.***button8***);  
 **mButton9**=findViewById(R.id.***button9***);  
 **mButton10**=findViewById(R.id.***button10***);  
 **mButton11**=findViewById(R.id.***button11***);  
 **mButton12**=findViewById(R.id.***button12***);  
 **mButton13**=findViewById(R.id.***button13***);  
 **mButton14**=findViewById(R.id.***button14***);  
 **mButton15**=findViewById(R.id.***button15***);  
 **mButton16**=findViewById(R.id.***button16***);  
 Intent mIntent = getIntent();  
  
 **if** (mIntent == **null**) {  
 **return**;  
 }  
 String qString = mIntent.getStringExtra(**"qString"**);  
 TextView textView3 = (TextView)findViewById(R.id.***textView3***);  
 textView3.setText(qString);  
 }  
  
 **public void** MoveToMainActivity(View view){  
 finish();  
 }  
  
 **public void** ClickMethod(View view) {  
 **switch** (view.getId()) {  
 **case** R.id.***button5***:  
 **if** (**num** == 1) {  
 **mDrawable** = ResourcesCompat.*getDrawable*(getResources(), R.drawable.***king***, **null**);  
 **mButton5**.setImageDrawable(**mDrawable**);  
 Toast.*makeText*(getApplicationContext(), **"You are the King"**, Toast.***LENGTH\_SHORT***).show();  
 }  
 **else** {  
 **mDrawable** = ResourcesCompat.*getDrawable*(getResources(), R.drawable.***card***, **null**);  
 **mButton5**.setImageDrawable(**mDrawable**);  
 Toast.*makeText*(getApplicationContext(), **"Nothing happened!"**, Toast.***LENGTH\_SHORT***).show();  
 }**break**;  
 **case** R.id.***button6***:  
 **if** (**num** == 2) {  
 **mDrawable** = ResourcesCompat.*getDrawable*(getResources(), R.drawable.***king***, **null**);  
 **mButton6**.setImageDrawable(**mDrawable**);  
 Toast.*makeText*(getApplicationContext(), **"Drink!"**, Toast.***LENGTH\_SHORT***).show();  
 }  
 **else** {  
 **mDrawable** = ResourcesCompat.*getDrawable*(getResources(), R.drawable.***card***, **null**);  
 **mButton6**.setImageDrawable(**mDrawable**);  
 Toast.*makeText*(getApplicationContext(), **"Nothing happened!"**, Toast.***LENGTH\_SHORT***).show();  
 }**break**;  
 **case** R.id.***button7***:  
 **if** (**num** == 3) {  
 **mDrawable** = ResourcesCompat.*getDrawable*(getResources(), R.drawable.***king***, **null**);  
 **mButton7**.setImageDrawable(**mDrawable**);  
 Toast.*makeText*(getApplicationContext(), **"Drink!"**, Toast.***LENGTH\_SHORT***).show();  
 }  
 **else** {  
 **mDrawable** = ResourcesCompat.*getDrawable*(getResources(), R.drawable.***card***, **null**);  
 **mButton7**.setImageDrawable(**mDrawable**);  
 Toast.*makeText*(getApplicationContext(), **"Nothing happened!"**, Toast.***LENGTH\_SHORT***).show();  
 }**break**;  
 **case** R.id.***button8***:  
 **if** (**num** == 4) {  
 **mDrawable** = ResourcesCompat.*getDrawable*(getResources(), R.drawable.***king***, **null**);  
 **mButton8**.setImageDrawable(**mDrawable**);  
 Toast.*makeText*(getApplicationContext(), **"You are the King!"**, Toast.***LENGTH\_SHORT***).show();  
 }  
 **else** {  
 **mDrawable** = ResourcesCompat.*getDrawable*(getResources(), R.drawable.***card***, **null**);  
 **mButton8**.setImageDrawable(**mDrawable**);  
 Toast.*makeText*(getApplicationContext(), **"Nothing happened!"**, Toast.***LENGTH\_SHORT***).show();  
 }**break**;  
 **case** R.id.***button9***:  
 **if** (**num** == 5) {  
 **mDrawable** = ResourcesCompat.*getDrawable*(getResources(), R.drawable.***king***, **null**);  
 **mButton9**.setImageDrawable(**mDrawable**);  
 Toast.*makeText*(getApplicationContext(), **"You are the King!"**, Toast.***LENGTH\_SHORT***).show();  
 }  
 **else** {  
 **mDrawable** = ResourcesCompat.*getDrawable*(getResources(), R.drawable.***card***, **null**);  
 **mButton9**.setImageDrawable(**mDrawable**);  
 Toast.*makeText*(getApplicationContext(), **"Nothing happened!"**, Toast.***LENGTH\_SHORT***).show();  
 }**break**;  
 **case** R.id.***button10***:  
 **if** (**num** == 6) {  
 **mDrawable** = ResourcesCompat.*getDrawable*(getResources(), R.drawable.***king***, **null**);  
 **mButton10**.setImageDrawable(**mDrawable**);  
 Toast.*makeText*(getApplicationContext(), **"You are the King!"**, Toast.***LENGTH\_SHORT***).show();  
 }  
 **else** {  
 **mDrawable** = ResourcesCompat.*getDrawable*(getResources(), R.drawable.***card***, **null**);  
 **mButton10**.setImageDrawable(**mDrawable**);  
 Toast.*makeText*(getApplicationContext(), **"Nothing happened!"**, Toast.***LENGTH\_SHORT***).show();  
 }**break**;  
 **case** R.id.***button11***:  
 **if** (**num** == 7) {  
 **mDrawable** = ResourcesCompat.*getDrawable*(getResources(), R.drawable.***king***, **null**);  
 **mButton11**.setImageDrawable(**mDrawable**);  
 Toast.*makeText*(getApplicationContext(), **"You are the King!"**, Toast.***LENGTH\_SHORT***).show();  
 }  
 **else** {  
 **mDrawable** = ResourcesCompat.*getDrawable*(getResources(), R.drawable.***card***, **null**);  
 **mButton11**.setImageDrawable(**mDrawable**);  
 Toast.*makeText*(getApplicationContext(), **"Nothing happened!"**, Toast.***LENGTH\_SHORT***).show();  
 }**break**;  
 **case** R.id.***button12***:  
 **if** (**num** == 8) {  
 **mDrawable** = ResourcesCompat.*getDrawable*(getResources(), R.drawable.***king***, **null**);  
 **mButton12**.setImageDrawable(**mDrawable**);  
 Toast.*makeText*(getApplicationContext(), **"You are the King!"**, Toast.***LENGTH\_SHORT***).show();  
 }  
 **else** {  
 **mDrawable** = ResourcesCompat.*getDrawable*(getResources(), R.drawable.***card***, **null**);  
 **mButton12**.setImageDrawable(**mDrawable**);  
 Toast.*makeText*(getApplicationContext(), **"Nothing happened!"**, Toast.***LENGTH\_SHORT***).show();  
 }**break**;  
 **case** R.id.***button13***:  
 **if** (**num** == 9) {  
 **mDrawable** = ResourcesCompat.*getDrawable*(getResources(), R.drawable.***king***, **null**);  
 **mButton13**.setImageDrawable(**mDrawable**);  
 Toast.*makeText*(getApplicationContext(), **"You are the King!"**, Toast.***LENGTH\_SHORT***).show();  
 }  
 **else** {  
 **mDrawable** = ResourcesCompat.*getDrawable*(getResources(), R.drawable.***card***, **null**);  
 **mButton13**.setImageDrawable(**mDrawable**);  
 Toast.*makeText*(getApplicationContext(), **"Nothing happened!"**, Toast.***LENGTH\_SHORT***).show();  
 }**break**;  
 **case** R.id.***button14***:  
 **if** (**num** == 10) {  
 **mDrawable** = ResourcesCompat.*getDrawable*(getResources(), R.drawable.***king***, **null**);  
 **mButton14**.setImageDrawable(**mDrawable**);  
 Toast.*makeText*(getApplicationContext(), **"You are the King!"**, Toast.***LENGTH\_SHORT***).show();  
 }  
 **else** {  
 **mDrawable** = ResourcesCompat.*getDrawable*(getResources(), R.drawable.***card***, **null**);  
 **mButton14**.setImageDrawable(**mDrawable**);  
 Toast.*makeText*(getApplicationContext(), **"Nothing happened!"**, Toast.***LENGTH\_SHORT***).show();  
 }**break**;  
 **case** R.id.***button15***:  
 **if** (**num** == 11) {  
 **mDrawable** = ResourcesCompat.*getDrawable*(getResources(), R.drawable.***king***, **null**);  
 **mButton15**.setImageDrawable(**mDrawable**);  
 Toast.*makeText*(getApplicationContext(), **"You are the King!"**, Toast.***LENGTH\_SHORT***).show();  
 }  
 **else** {  
 **mDrawable** = ResourcesCompat.*getDrawable*(getResources(), R.drawable.***card***, **null**);  
 **mButton15**.setImageDrawable(**mDrawable**);  
 Toast.*makeText*(getApplicationContext(), **"Nothing happened!"**, Toast.***LENGTH\_SHORT***).show();  
 }**break**;  
 **case** R.id.***button16***:  
 **if** (**num** == 12) {  
 **mDrawable** = ResourcesCompat.*getDrawable*(getResources(), R.drawable.***king***, **null**);  
 **mButton16**.setImageDrawable(**mDrawable**);  
 Toast.*makeText*(getApplicationContext(), **"You are the King!"**, Toast.***LENGTH\_SHORT***).show();  
 }  
 **else** {  
 **mDrawable** = ResourcesCompat.*getDrawable*(getResources(), R.drawable.***card***, **null**);  
 **mButton16**.setImageDrawable(**mDrawable**);  
 Toast.*makeText*(getApplicationContext(), **"Nothing happened!"**, Toast.***LENGTH\_SHORT***).show();  
 }**break**;  
 }  
 }  
  
}

King XML

*<?***xml version="1.0" encoding="utf-8"***?>*<**androidx.constraintlayout.widget.ConstraintLayout 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="@color/colorBackground"  
 android:onClick="ClickMethod"  
 tools:context=".King"**>  
  
 <**ImageButton  
 android:id="@+id/button8"  
 android:layout\_width="87dp"  
 android:layout\_height="87dp"  
 android:background="@android:color/holo\_green\_light"  
 android:onClick="ClickMethod"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.111"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.364"** />  
  
 <**ImageButton  
 android:id="@+id/button11"  
 android:layout\_width="87dp"  
 android:layout\_height="87dp"  
 android:background="@android:color/holo\_green\_light"  
 android:onClick="ClickMethod"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.108"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.54"** />  
  
 <**ImageButton  
 android:id="@+id/button13"  
 android:layout\_width="87dp"  
 android:layout\_height="87dp"  
 android:background="@android:color/holo\_green\_light"  
 android:onClick="ClickMethod"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.867"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.54"** />  
  
 <**ImageButton  
 android:id="@+id/button14"  
 android:layout\_width="87dp"  
 android:layout\_height="87dp"  
 android:background="@android:color/holo\_green\_light"  
 android:onClick="ClickMethod"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.108"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.714"** />  
  
 <**ImageButton  
 android:id="@+id/button16"  
 android:layout\_width="87dp"  
 android:layout\_height="87dp"  
 android:background="@android:color/holo\_green\_light"  
 android:onClick="ClickMethod"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.867"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.714"** />  
  
 <**ImageButton  
 android:id="@+id/button15"  
 android:layout\_width="87dp"  
 android:layout\_height="87dp"  
 android:background="@android:color/holo\_green\_light"  
 android:onClick="ClickMethod"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.496"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.714"** />  
  
 <**ImageButton  
 android:id="@+id/button12"  
 android:layout\_width="87dp"  
 android:layout\_height="87dp"  
 android:background="@android:color/holo\_green\_light"  
 android:onClick="ClickMethod"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.496"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.54"** />  
  
 <**ImageButton  
 android:id="@+id/button10"  
 android:layout\_width="87dp"  
 android:layout\_height="87dp"  
 android:background="@android:color/holo\_green\_light"  
 android:onClick="ClickMethod"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.87"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.364"** />  
  
 <**ImageButton  
 android:id="@+id/button9"  
 android:layout\_width="87dp"  
 android:layout\_height="87dp"  
 android:background="@android:color/holo\_green\_light"  
 android:onClick="ClickMethod"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.364"** />  
  
 <**TextView  
 android:id="@+id/textView3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.406"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.071"** />  
  
 <**Button  
 android:id="@+id/button2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:background="@color/colorButton"  
 android:onClick="Again"  
 android:text="Again"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.108"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.901"** />  
  
 <**Button  
 android:id="@+id/button4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:background="@color/colorButton"  
 android:onClick="MoveToMainActivity"  
 android:text="BACK"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.839"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.901"** />  
  
 <**ImageButton  
 android:id="@+id/button5"  
 android:layout\_width="87dp"  
 android:layout\_height="87dp"  
 android:background="@android:color/holo\_green\_light"  
 android:onClick="ClickMethod"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.111"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.197"** />  
  
 <**ImageButton  
 android:id="@+id/button6"  
 android:layout\_width="87dp"  
 android:layout\_height="87dp"  
 android:background="@android:color/holo\_green\_light"  
 android:onClick="ClickMethod"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.197"** />  
  
 <**ImageButton  
 android:id="@+id/button7"  
 android:layout\_width="87dp"  
 android:layout\_height="87dp"  
 android:background="@android:color/holo\_green\_light"  
 android:onClick="ClickMethod"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.867"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.197"** />  
</**androidx.constraintlayout.widget.ConstraintLayout**>