

Mobile Application Development

Lab 2



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# Activity 1: Number Guessing Game

## **Layout**

<?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"

    tools:context=".MainActivity">

    <TextView

        android:id="@+id/text"

        android:layout\_width="200dp"

        android:layout\_height="20dp"

        android:text="Guess Number between 1000"

        app:layout\_constraintBottom\_toBottomOf="parent"

        app:layout\_constraintEnd\_toEndOf="parent"

        app:layout\_constraintHorizontal\_bias="0.498"

        app:layout\_constraintLeft\_toLeftOf="parent"

        app:layout\_constraintRight\_toRightOf="parent"

        app:layout\_constraintStart\_toStartOf="parent"

        app:layout\_constraintTop\_toTopOf="parent"

        app:layout\_constraintVertical\_bias="0.436" />

    <Button

        android:id="@+id/button"

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:layout\_marginBottom="224dp"

        android:onClick="Validate"

        android:text="Validate"

        app:layout\_constraintBottom\_toBottomOf="parent"

        app:layout\_constraintEnd\_toEndOf="parent"

        app:layout\_constraintStart\_toStartOf="parent" />

    <EditText

        android:id="@+id/input"

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:layout\_marginTop="360dp"

        android:ems="10"

        android:inputType="number"

        app:layout\_constraintEnd\_toEndOf="parent"

        app:layout\_constraintHorizontal\_bias="0.472"

        app:layout\_constraintStart\_toStartOf="parent"

        app:layout\_constraintTop\_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>

## **Logic Code**

package com.example.number\_guessing\_game;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.util.Log;

import android.view.View;

import android.widget.EditText;

import android.widget.TextView;

import java.util.Random;

public class MainActivity extends AppCompatActivity {

public TextView txt;

public EditText textfield;

int NumberToGuess;

@Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity\_main);

        Random rand=new Random();

        NumberToGuess=rand.nextInt(1000);

    }

    public void Validate(View view){

         txt=(TextView) findViewById(R.id.text);

         textfield=(EditText)findViewById(R.id.input);

        int guess=Integer.parseInt(textfield.getText().toString());

        if(guess==NumberToGuess)

            txt.setText("You win");

        else if(guess<NumberToGuess)

               txt.setText("You are low");

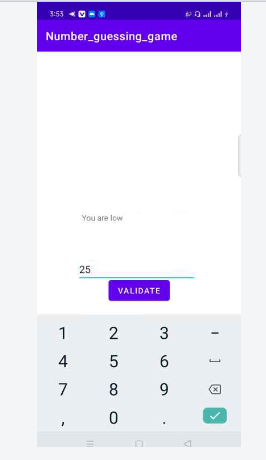
        else

            txt.setText("You are high");

    }

}

## **Output**



# Activity 2: Memory Game

## **Layout**

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout 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:orientation="vertical"

    tools:context=".MainActivity"

    android:background="#fff">

    <TextView

        android:id="@+id/text"

        android:layout\_width="match\_parent"

        android:layout\_height="wrap\_content"

        android:text=""

        android:textSize="30dp"

       android:textColor="@color/black"

android:gravity="center"

        />

<LinearLayout

    android:layout\_width="match\_parent"

    android:layout\_height="wrap\_content"

    android:orientation="horizontal"

    android:layout\_marginTop="70dp"

    >

    <ImageButton

        android:id="@+id/imageButton1"

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:background="#fff"

        android:tag="0"

        app:srcCompat="@drawable/a"

        android:layout\_weight="10"

        android:onClick="Change"

        />

    <ImageButton

        android:id="@+id/imageButton2"

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:background="#fff"

        app:srcCompat="@drawable/a"

        android:layout\_weight="10"

        android:onClick="Change"

        android:tag="1"

        />

    <ImageButton

        android:id="@+id/imageButton3"

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:background="#fff"

        app:srcCompat="@drawable/a"

        android:layout\_weight="10"

        android:onClick="Change"

        android:tag="2"

        />

    <ImageButton

        android:id="@+id/imageButton4"

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:background="#fff"

        app:srcCompat="@drawable/a"

        android:layout\_weight="10"

        android:onClick="Change"

        android:tag="3"

        />

</LinearLayout>

    <LinearLayout

        android:layout\_width="match\_parent"

        android:layout\_height="wrap\_content"

        android:orientation="horizontal"

        android:layout\_marginTop="20dp"

        >

        <ImageButton

            android:id="@+id/imageButton5"

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:background="#fff"

            app:srcCompat="@drawable/a"

            android:layout\_weight="10"

            android:onClick="Change"

            android:tag="4"

            />

        <ImageButton

            android:id="@+id/imageButton6"

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:background="#fff"

            app:srcCompat="@drawable/a"

            android:layout\_weight="10"

            android:onClick="Change"

            android:tag="5"

            />

        <ImageButton

            android:id="@+id/imageButton7"

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:background="#fff"

            app:srcCompat="@drawable/a"

            android:layout\_weight="10"

            android:onClick="Change"

            android:tag="6"

            />

        <ImageButton

            android:id="@+id/imageButton8"

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:background="#fff"

            app:srcCompat="@drawable/a"

            android:layout\_weight="10"

            android:onClick="Change"

            android:tag="7"

            />

    </LinearLayout>

    <LinearLayout

        android:layout\_width="match\_parent"

        android:layout\_height="wrap\_content"

        android:orientation="horizontal"

        android:layout\_marginTop="20dp"

        >

        <ImageButton

            android:id="@+id/imageButton9"

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:background="#fff"

            app:srcCompat="@drawable/a"

            android:layout\_weight="10"

            android:onClick="Change"

            android:tag="8"

            />

        <ImageButton

            android:id="@+id/imageButton10"

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:background="#fff"

            app:srcCompat="@drawable/a"

            android:layout\_weight="10"

            android:onClick="Change"

            android:tag="9"

            />

        <ImageButton

            android:id="@+id/imageButton11"

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:background="#fff"

            app:srcCompat="@drawable/a"

            android:layout\_weight="10"

            android:onClick="Change"

            android:tag="10"

            />

        <ImageButton

            android:id="@+id/imageButton12"

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:background="#fff"

            app:srcCompat="@drawable/a"

            android:layout\_weight="10"

            android:onClick="Change"

            android:tag="11"

            />

    </LinearLayout>

    <LinearLayout

        android:layout\_width="match\_parent"

        android:layout\_height="wrap\_content"

        android:orientation="horizontal"

        android:layout\_marginTop="20dp"

        >

        <ImageButton

            android:id="@+id/imageButton13"

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:background="#fff"

            app:srcCompat="@drawable/a"

            android:layout\_weight="10"

            android:onClick="Change"

            android:tag="12"

            />

        <ImageButton

            android:id="@+id/imageButton14"

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:background="#fff"

            app:srcCompat="@drawable/a"

            android:layout\_weight="10"

            android:onClick="Change"

            android:tag="13"

            />

        <ImageButton

            android:id="@+id/imageButton15"

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:background="#fff"

            app:srcCompat="@drawable/a"

            android:layout\_weight="10"

            android:onClick="Change"

            android:tag="14"

            />

        <ImageButton

            android:id="@+id/imageButton16"

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:background="#fff"

            app:srcCompat="@drawable/a"

            android:onClick="Change"

            android:layout\_weight="10"

            android:tag="15"

            />

    </LinearLayout>

    <LinearLayout

        android:layout\_width="match\_parent"

        android:layout\_height="wrap\_content"

        android:orientation="horizontal"

        android:layout\_marginTop="20dp"

        >

        <ImageButton

            android:id="@+id/imageButton17"

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:background="#fff"

            app:srcCompat="@drawable/a"

            android:layout\_weight="10"

            android:onClick="Change"

            android:tag="16"

            />

        <ImageButton

            android:id="@+id/imageButton18"

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:background="#fff"

            app:srcCompat="@drawable/a"

            android:layout\_weight="10"

            android:onClick="Change"

            android:tag="17"

            />

        <ImageButton

            android:id="@+id/imageButton19"

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:background="#fff"

            app:srcCompat="@drawable/a"

            android:layout\_weight="10"

            android:onClick="Change"

            android:tag="18"

            />

        <ImageButton

            android:id="@+id/imageButton20"

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:background="#fff"

            app:srcCompat="@drawable/a"

            android:layout\_weight="10"

            android:onClick="Change"

            android:tag="19"

            />

    </LinearLayout>

    <LinearLayout

        android:layout\_width="match\_parent"

        android:layout\_height="wrap\_content"

        android:orientation="horizontal"

        android:layout\_marginTop="20dp"

        >

        <ImageButton

            android:id="@+id/imageButton21"

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:background="#fff"

            app:srcCompat="@drawable/a"

            android:layout\_weight="10"

            android:onClick="Change"

            android:tag="20"

            />

        <ImageButton

            android:id="@+id/imageButton22"

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:background="#fff"

            app:srcCompat="@drawable/a"

            android:layout\_weight="10"

            android:onClick="Change"

            android:tag="21"

            />

        <ImageButton

            android:id="@+id/imageButton23"

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:background="#fff"

            app:srcCompat="@drawable/a"

            android:layout\_weight="10"

            android:onClick="Change"

            android:tag="22"

            />

        <ImageButton

            android:id="@+id/imageButton24"

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:background="#fff"

            app:srcCompat="@drawable/a"

            android:layout\_weight="10"

            android:onClick="Change"

            android:tag="23"

            />

    </LinearLayout>

</LinearLayout>

## **Logic Code**

package com.example.memorygame;

import androidx.appcompat.app.AppCompatActivity;

import android.media.Image;

import android.os.Bundle;

import android.os.Handler;

import android.util.Log;

import android.view.View;

import android.widget.ImageButton;

import android.widget.TextView;

import java.util.Collection;

import java.util.HashMap;

import java.util.Map;

import java.util.Random;

public class MainActivity extends AppCompatActivity {

    int[] imgarray;

    int counter;

    ImageButton[] btns;

    String[] imagenames;

    int win;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity\_main);

        counter=-1;

        win=0;

        imgarray=new int[24];

        Random rand=new Random();

        for (int i=0;i<imgarray.length;i++)

            imgarray[i]=rand.nextInt(3);

        btns=new ImageButton[2];

        imagenames=new String[2];

    }

    public void Change(View view){

        ++counter;

        ImageButton button=(ImageButton)view;

        int tag= Integer.parseInt(button.getTag().toString());

        btns[counter]=button;

        if(imgarray[tag]==0) {

            button.setImageResource(R.drawable.b);

//            images.put(""+tag,"b");

            imagenames[counter]="b";

        }

        else if(imgarray[tag]==1) {

            button.setImageResource(R.drawable.c);

            imagenames[counter]="c";

        }

        else {

            button.setImageResource(R.drawable.d);

            imagenames[counter]="d";

           }

        if(counter==1)

        {

            counter=-1;

            if(imagenames[0]==imagenames[1]) {

                Log.i("win", "you win");

            btns[0].setEnabled(false);

            btns[1].setEnabled(false);

            win+=2;

            }

            else

            {

                Handler handler=new Handler();

                handler.postDelayed(new Runnable() {

                    @Override

                    public void run() {

                        btns[0].setImageResource(R.drawable.a);

                        btns[1].setImageResource(R.drawable.a);

                    }

                },500);

            }

        }

        if(win==24||win==22){

            TextView txt=findViewById(R.id.text);

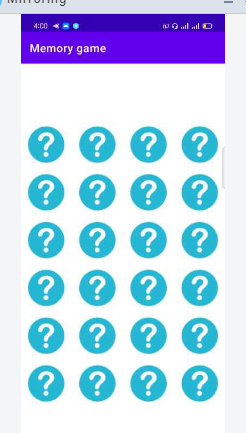
            txt.setText("You win");

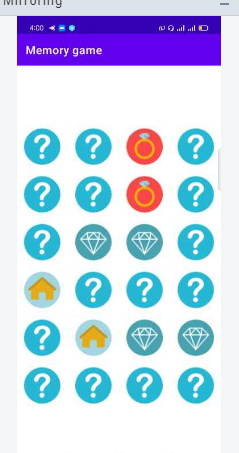
        }

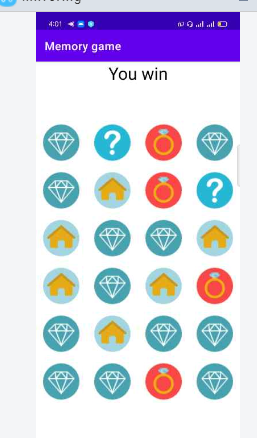
    }

}

## **Output**







# Activity 3: Potato Game

## **Layout**

<?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"

    tools:context=".MainActivity">

    <ImageView

        android:id="@+id/imageView3"

        android:layout\_marginTop="0dp"

        android:layout\_width="0dp"

        android:layout\_height="wrap\_content"

        app:layout\_constraintEnd\_toEndOf="parent"

        app:layout\_constraintTop\_toTopOf="parent"

        app:srcCompat="@drawable/body"

        />

    <ImageView

        android:id="@+id/nose"

        android:layout\_width="106dp"

        android:layout\_height="100dp"

        android:layout\_marginStart="118dp"

        android:layout\_marginLeft="118dp"

        android:layout\_marginTop="137dp"

        android:visibility="invisible"

        app:layout\_constraintStart\_toStartOf="@+id/imageView3"

        app:layout\_constraintTop\_toTopOf="parent"

        app:srcCompat="@drawable/nose" />

    <ImageView

        android:id="@+id/hat"

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:layout\_marginStart="92dp"

        android:layout\_marginLeft="92dp"

        android:layout\_marginTop="8dp"

        android:visibility="invisible"

        app:layout\_constraintStart\_toStartOf="@+id/imageView3"

        app:layout\_constraintTop\_toTopOf="parent"

        app:srcCompat="@drawable/hat" />

    <ImageView

        android:id="@+id/eyes"

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:layout\_marginStart="124dp"

        android:layout\_marginLeft="124dp"

        android:layout\_marginTop="95dp"

        android:visibility="invisible"

        app:layout\_constraintStart\_toStartOf="@+id/imageView3"

        app:layout\_constraintTop\_toTopOf="@+id/imageView3"

        app:srcCompat="@drawable/eyes" />

    <ImageView

        android:id="@+id/glasses"

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:layout\_marginStart="95dp"

        android:layout\_marginLeft="95dp"

        android:layout\_marginTop="86dp"

        android:visibility="invisible"

        app:layout\_constraintStart\_toStartOf="@+id/imageView3"

        app:layout\_constraintTop\_toTopOf="@+id/imageView3"

        app:srcCompat="@drawable/glasses" />

    <ImageView

        android:id="@+id/ears"

        android:layout\_width="248dp"

        android:layout\_height="78dp"

        android:layout\_marginStart="62dp"

        android:layout\_marginLeft="62dp"

        android:layout\_marginTop="90dp"

        app:layout\_constraintStart\_toStartOf="@+id/imageView3"

        app:layout\_constraintTop\_toTopOf="parent"

        app:srcCompat="@drawable/ears"

        android:visibility="invisible"

        />

    <ImageView

        android:id="@+id/mouth"

        android:layout\_width="81dp"

        android:layout\_height="57dp"

        android:layout\_marginStart="135dp"

        android:layout\_marginLeft="135dp"

        android:layout\_marginTop="220dp"

        app:layout\_constraintStart\_toStartOf="@+id/imageView3"

        app:layout\_constraintTop\_toTopOf="@+id/imageView3"

        app:srcCompat="@drawable/mouth"

        android:visibility="invisible"

        />

    <ImageView

        android:id="@+id/eyebrows"

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:layout\_marginStart="102dp"

        android:layout\_marginLeft="102dp"

        android:layout\_marginTop="70dp"

        app:layout\_constraintStart\_toStartOf="@+id/imageView3"

        app:layout\_constraintTop\_toTopOf="@+id/imageView3"

        app:srcCompat="@drawable/eyebrows"

        android:visibility="invisible"

        />

    <ImageView

        android:id="@+id/moustaches"

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:layout\_marginStart="85dp"

        android:layout\_marginLeft="85dp"

        android:layout\_marginTop="167dp"

        app:layout\_constraintStart\_toStartOf="@+id/imageView3"

        app:layout\_constraintTop\_toTopOf="@+id/hat"

        app:srcCompat="@drawable/moustache"

        android:visibility="invisible"

        />

    <ImageView

        android:id="@+id/arms"

        android:layout\_width="300dp"

        android:layout\_height="123dp"

        android:layout\_marginStart="34dp"

        android:layout\_marginLeft="34dp"

        android:layout\_marginTop="144dp"

        app:layout\_constraintStart\_toStartOf="@+id/imageView3"

        app:layout\_constraintTop\_toTopOf="@+id/hat"

        app:srcCompat="@drawable/arms"

        android:visibility="invisible"

        />

    <ImageView

        android:id="@+id/shoes"

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:layout\_marginStart="44dp"

        android:layout\_marginLeft="44dp"

        android:layout\_marginTop="300dp"

        android:visibility="invisible"

        app:layout\_constraintStart\_toStartOf="@+id/imageView3"

        app:layout\_constraintTop\_toTopOf="parent"

        app:srcCompat="@drawable/shoes" />

    <TextView

        android:id="@+id/textView"

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:layout\_marginTop="400dp"

        android:text="click his parts to add/remove them"

        android:textSize="23sp"

        app:layout\_constraintEnd\_toEndOf="parent"

        app:layout\_constraintHorizontal\_bias="0.487"

        app:layout\_constraintStart\_toStartOf="@+id/imageView3"

        app:layout\_constraintTop\_toTopOf="parent" />

    <LinearLayout

        android:id="@+id/linearLayout"

        android:layout\_width="match\_parent"

        android:layout\_height="wrap\_content"

        android:layout\_marginStart="200dp"

        android:layout\_marginLeft="20dp"

        android:layout\_marginTop="420dp"

        android:orientation="vertical"

        android:visibility="visible"

        app:layout\_constraintStart\_toStartOf="parent"

        app:layout\_constraintTop\_toTopOf="@+id/imageView3">

        <CheckBox

            android:id="@+id/checkBox1"

            android:layout\_width="wrap\_content"

            android:layout\_height="match\_parent"

            android:layout\_weight="1"

            android:onClick="Change"

            android:tag="1"

            android:text="Hat"

            />

        <CheckBox

            android:id="@+id/checkBox2"

            android:layout\_width="wrap\_content"

            android:layout\_height="match\_parent"

            android:layout\_weight="1"

            android:onClick="Change"

            android:tag="2"

            android:text="eyebrows"/>

        <CheckBox

            android:id="@+id/checkBox3"

            android:layout\_width="wrap\_content"

            android:layout\_height="match\_parent"

            android:layout\_weight="1"

            android:onClick="Change"

            android:tag="3"

            android:text="Nose"

            />

        <CheckBox

            android:id="@+id/checkBox4"

            android:layout\_width="wrap\_content"

            android:layout\_height="match\_parent"

            android:layout\_weight="1"

            android:onClick="Change"

            android:tag="4"

            android:text="Mustache"

            />

        <CheckBox

            android:id="@+id/checkBox5"

            android:layout\_width="wrap\_content"

            android:layout\_height="match\_parent"

            android:layout\_weight="1"

            android:onClick="Change"

            android:tag="5"

            android:text="Arms"

            />

    </LinearLayout>

    <LinearLayout

        android:id="@+id/linearLayout1"

        android:layout\_width="match\_parent"

        android:layout\_height="wrap\_content"

        android:layout\_marginStart="50dp"

        android:layout\_marginLeft="20dp"

        android:layout\_marginTop="420dp"

        android:orientation="vertical"

        app:layout\_constraintStart\_toStartOf="parent"

        app:layout\_constraintTop\_toTopOf="@+id/imageView3">

        <CheckBox

            android:id="@+id/checkBox7"

            android:layout\_width="wrap\_content"

            android:layout\_height="match\_parent"

            android:layout\_weight="1"

            android:text="Eyes"

            android:onClick="Change"

            android:tag="7"

            />

        <CheckBox

            android:id="@+id/checkBox8"

            android:layout\_width="wrap\_content"

            android:layout\_height="match\_parent"

            android:layout\_weight="1"

            android:text="Glasses"

            android:onClick="Change"

            android:tag="8"

            />

        <CheckBox

            android:id="@+id/checkBox9"

            android:layout\_width="wrap\_content"

            android:layout\_height="match\_parent"

            android:layout\_weight="1"

            android:text="Mouth"

            android:onClick="Change"

            android:tag="9"

            />

        <CheckBox

            android:id="@+id/checkBox10"

            android:layout\_width="wrap\_content"

            android:layout\_height="match\_parent"

            android:layout\_weight="1"

            android:text="Ear"

            android:onClick="Change"

            android:tag="10"

            />

        <CheckBox

            android:id="@+id/checkBox6"

            android:layout\_width="wrap\_content"

            android:layout\_height="match\_parent"

            android:layout\_weight="1"

            android:text="Shoes"

            android:onClick="Change"

            android:tag="6"

            />

    </LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

## **Logic Code**

package com.example.potato\_game;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.util.Log;

import android.view.View;

import android.widget.CheckBox;

public class MainActivity extends AppCompatActivity {

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity\_main);

    }

    public void Change(View view){

            CheckBox btn=(CheckBox)view;

        Log.i("hi",btn.getTag().toString());

        if(btn.getTag().toString().equals("1")) {

            if(btn.isChecked())

            findViewById(R.id.hat).setVisibility(View.VISIBLE);

            else

                findViewById(R.id.hat).setVisibility(View.INVISIBLE);

        }

        else if(btn.getTag().toString().equals("2")) {

            if(btn.isChecked())

                findViewById(R.id.eyebrows).setVisibility(View.VISIBLE);

            else

                findViewById(R.id.eyebrows).setVisibility(View.INVISIBLE);

        }

        else if(btn.getTag().toString().equals("3")){

            if(btn.isChecked())

                findViewById(R.id.nose).setVisibility(View.VISIBLE);

            else

                findViewById(R.id.nose).setVisibility(View.INVISIBLE);

        }

        else if(btn.getTag().toString().equals("4")) {

            if(btn.isChecked())

                findViewById(R.id.moustaches).setVisibility(View.VISIBLE);

            else

                findViewById(R.id.moustaches).setVisibility(View.INVISIBLE);

        }

        else if(btn.getTag().toString().equals("5")) {

            if(btn.isChecked())

            findViewById(R.id.arms).setVisibility(View.VISIBLE);

            else

            findViewById(R.id.arms).setVisibility(View.INVISIBLE);

        }

        else if(btn.getTag().toString().equals("6")) {

            if(btn.isChecked())

            findViewById(R.id.shoes).setVisibility(View.VISIBLE);

            else

            findViewById(R.id.shoes).setVisibility(View.INVISIBLE);

        }

        else if(btn.getTag().toString().equals("7")){

            if(btn.isChecked())

            findViewById(R.id.eyes).setVisibility(View.VISIBLE);

            else

            findViewById(R.id.eyes).setVisibility(View.INVISIBLE);

        }

        else if(btn.getTag().toString().equals("8")) {

            if(btn.isChecked())

            findViewById(R.id.glasses).setVisibility(View.VISIBLE);

            else

            findViewById(R.id.glasses).setVisibility(View.INVISIBLE);

        }

        else if(btn.getTag().toString().equals("9")) {

            if(btn.isChecked())

            findViewById(R.id.mouth).setVisibility(View.VISIBLE);

            else

                findViewById(R.id.mouth).setVisibility(View.INVISIBLE);

        }

        else if(btn.getTag().toString().equals("10")) {

            if(btn.isChecked())

            findViewById(R.id.ears).setVisibility(View.VISIBLE);

            else

                findViewById(R.id.ears).setVisibility(View.INVISIBLE);

        }

    }

}

## **Output**

