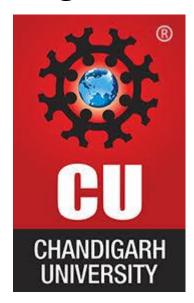
Surprise Test Chandigarh University



Subject-: Advanced MAD

Surprise test

Submission date: 8/April/2020

Submitted By: Submitted To:

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Course: MCA(A)

UID: 18mca8052

Group: 1

Q1. Create Number Guessing Game in android.

XML file:

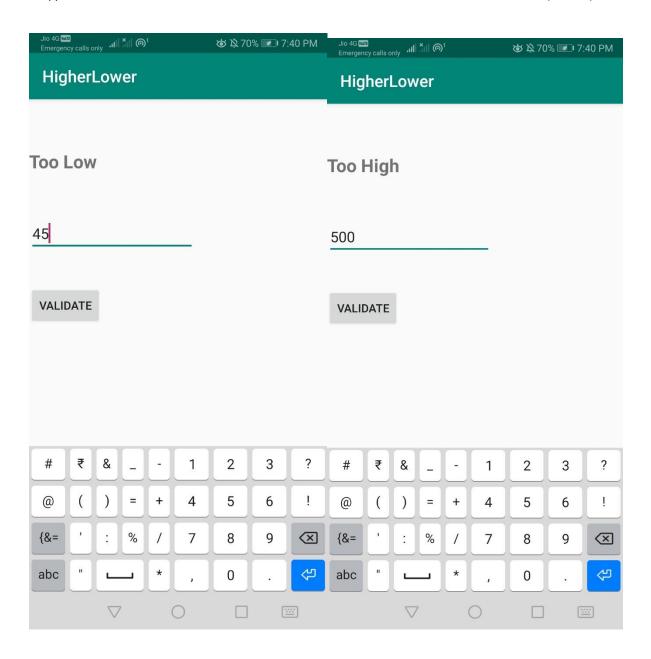
```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  xmlns:app="http://schemas.android.com/apk/res-auto"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  tools:context=".MainActivity"
  android:orientation="vertical">
 <TextView
    android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:id="@+id/msg"
   android:textSize="22dp"
    android:textStyle="bold"
   android:layout marginTop="60dp"
   />
  <EditText
    android:layout_width="200dp"
    android:layout_height="wrap_content"
    android:layout marginTop="50dp"
    android:inputType="number"
    android:id="@+id/number"/>
  <Button
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:id="@+id/validate"
    android:layout marginTop="40dp"
    android:text="Validate"/>
</LinearLayout>
String file
<resources>
  <string name="app_name">HigherLower</string>
  <string name="start msg">Guessing the number</string>
  <string name="too_high">Too High</string>
  <string name="too_low">Too Low</string>
</resources>
```

Java file:

```
package com.example.guessingnumber;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;
import java.util.Random;
public class MainActivity extends AppCompatActivity implements View.OnClickListener
  public static final int MAX_NUMBER=400;
  public static final Random RANDOM=new Random();
  private TextView msg;
  private EditText number;
  private Button validate;
  private int numberToFind, numberTries;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    msg=(TextView)findViewById(R.id.msg);
    number=(EditText)findViewById(R.id.number);
    validate=(Button)findViewById(R.id.validate);
    validate.setOnClickListener(this);
    newGame();
  }
  @Override
  public void onClick(View v) {
    if(v== validate)
      validate();
  private void validate()
    int n=Integer.parseInt(number.getText().toString());
    numberTries++;
    if(n==numberToFind)
      Toast.makeText(this, "Congratulations | you found the number "+ numberToFind
```

```
+ "in " + numberTries + "tries", Toast.LENGTH_SHORT).show();
      newGame();
    else
      if(n>numberToFind)
        msg.setText(R.string.too_high);
      else
        if(n<numberToFind)</pre>
           msg.setText(R.string.too_low);
  }
  private void newGame()
    numberToFind=RANDOM.nextInt(MAX_NUMBER) +1;
    msg.setText(R.string.start_msg);
    number.setText("");
    numberTries=0;
  }
}
```

Output.



If the number is less than the actual number then it will display that number is low than the actual maximum number.

If the number is greater than the actual number then it will display that number is high than the actual maximum number.