

```
1 package me.jamiepeterson.al8mathquiz;
2
3 import android.graphics.Color;
4 import android.support.v7.app.AppCompatActivity;
5 import android.os.Bundle;
6 import android.view.View;
7 import android.widget.Button;
8 import android.widget.EditText;
9 import android.widget.TextView;
10
11 public class MainActivity extends AppCompatActivity {
12     protected Questions q;
13     protected boolean entered;
14
15     @Override
16     protected void onCreate(Bundle savedInstanceState) {
17         super.onCreate(savedInstanceState);
18         setContentView(R.layout.activity_main);
19
20         //Submit
21         Button submit = (Button)findViewById(R.id.submit);
22         SubmitHandler temp = new SubmitHandler();
23         submit.setOnClickListener(temp);
24
25         //Next
26         Button next = (Button)findViewById(R.id.next);
27         SubmitHandler tempN = new SubmitHandler();
28         next.setOnClickListener(tempN);
29
30         //Start Questions
31         new Questions();
32
33         entered = false;
34         generate();
35
36     }
37
38     //Submit Handler
39     private class SubmitHandler implements View.OnClickListener {
40         public void onClick(View v) {
41             if(!entered){
42                 check();
43                 entered = true;
44             }
45         }
46     }
47
48     //Next Handler
49     private class NextHandler implements View.OnClickListener {
50         public void onClick(View v) {
51             if(entered){
52                 generate();
53                 entered = false;
54             }
55         }
56     }
57 }
```

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55     }
56 }
57
58 private void check(){
59     //Get Answer
60     EditText answerText = (EditText)findViewById(R.id.answer);
61     String answerString = answerText.getText().toString();
62     int answer;
63     try{
64         answer = Integer.parseInt(answerString);
65     }
66     catch (NumberFormatException e){
67         answer = 0;
68     }
69
70     if(q.checkAnswer(answer)){
71         TextView feedback = (TextView)findViewById(R.id.feedback);
72         feedback.setText("Correct!");
73     }else{
74         TextView feedback = (TextView)findViewById(R.id.feedback);
75         feedback.setText("Incorrect");
76     }
77     TextView score = (TextView)findViewById(R.id.score);
78     score.setText(q.getCorrect() + " / " + q.getQuestions());
79 }
80
81 private void generate(){
82     q.generate();
83
84     //Get TextViews
85     TextView left = (TextView)findViewById(R.id.left);
86     TextView operation = (TextView)findViewById(R.id.operation);
87     TextView right = (TextView)findViewById(R.id.right);
88     EditText answer = (EditText) findViewById(R.id.answer);
89
90     //Set values
91     left.setText(""+q.getLeft());
92     operation.setText(""+q.getOperation());
93     right.setText(""+q.getRight());
94     answer.setText("");
95     answer.setBackgroundColor(Color.parseColor("#FFFFFF"));
96 }
97 }
98
99
```