```java
package com.example.braintimer;

import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;

import android.content.Context;
import android.content.DialogInterface;
import android.content.Intent;
import android.content.SharedPreferences;
import android.os.Bundle;
import android.os.CountDownTimer;
import android.view.View;
import android.widget.TextView;

import com.example.braintimer.db.BrainTimerAppDb;

import java.util.ArrayList;
import java.util.List;
import java.util.Random;

public class PlayingActivity extends AppCompatActivity {

    TextView textViewTimer;
    TextView textViewQuestionCount;
    TextView textViewQuestion;
    TextView textViewAnswer1;
    TextView textViewAnswer2;
    TextView textViewAnswer3;
    TextView textViewAnswer4;
    SharedPreferences sharedPreferences;
    CountDownTimer timer;
    String username;
    int round = 0;
    int firstNumber = 0;
    int secondNumber = 0;
    int answer = 0;
    int questionCount = 0;
    BrainTimerAppDb db;

    @Override
    public void onBackPressed() {

        timer.cancel();
        long remainingTimer = Integer.parseInt(textViewTimer.getText().toString()) *
        1000;

        AlertDialog.Builder dialog = new AlertDialog.Builder(this);
        dialog.setTitle("Warning");
        dialog.setMessage("Are you sure you want to exit the game ?");
        dialog.setNegativeButton("No", new DialogInterface.OnClickListener() {
            @Override
            public void onClick(DialogInterface dialog, int which) {
                timer = initializeTimerAndReturn(remainingTimer,1000);
                timer.start();
            }
        });

        dialog.setPositiveButton("Yes", new DialogInterface.OnClickListener() {
            @Override
            public void onClick(DialogInterface dialog, int which) {
                Intent intent = new Intent(getApplicationContext(),StartingActivity.
                class);
                startActivity(intent);
            }
        });

        dialog.show();
    }
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_playing);

```

```
72          db = new BrainTimerAppDb(getApplicationContext());
73
74          Intent intent = getIntent();
75          username = intent.getStringExtra("name");
76
77          textViewQuestionCount = findViewById(R.id.textViewQuestionCount);
78          textViewQuestion = findViewById(R.id.textViewQuestion);
79          textViewAnswer1 = findViewById(R.id.textViewAnswer1);
80          textViewAnswer2 = findViewById(R.id.textViewAnswer2);
81          textViewAnswer3 = findViewById(R.id.textViewAnswer3);
82          textViewAnswer4 = findViewById(R.id.textViewAnswer4);
83          textViewTimer = findViewById(R.id.textViewTimer);
84
85          timer = initializeTimerAndReturn(30000,1000);
86
87          timer.start();
88
89          sharedPreferences = this.getSharedPreferences(getApplicationInfo().name,
            Context.MODE_PRIVATE);
90          questionCount = sharedPreferences.getInt("questionCount",10);
91          textViewQuestionCount.setText(String.format("%d/%d",round,questionCount));
92
93          loadQuestion();
94          loadAnswers();
95      }
96      private void loadQuestion(){
97          Random rand = new Random();
98          firstNumber = rand.nextInt(100) + 1;
99          secondNumber = rand.nextInt(100) + 1;
100         answer = firstNumber + secondNumber;
101
102         textViewQuestion.setText(String.format("%d + %d",firstNumber,secondNumber));
103     }
104     private void selectAnswer(int selectedAnswer){
105
106         timer.cancel();
107         long remainingTimer = Integer.parseInt(textViewTimer.getText().toString()) *
            1000;
108
109         AlertDialog.Builder dialog = new AlertDialog.Builder(this);
110         dialog.setTitle("Warning");
111         dialog.setMessage("Are you sure you want to choose this answer ?");
112         dialog.setNegativeButton("No", new DialogInterface.OnClickListener() {
113             @Override
114             public void onClick(DialogInterface dialog, int which) {
115                 timer = initializeTimerAndReturn(remainingTimer,1000);
116                 timer.start();
117             }
118         });
119
120         dialog.setPositiveButton("Yes", new DialogInterface.OnClickListener() {
121             @Override
122             public void onClick(DialogInterface dialog, int which) {
123                 checkAnswer(selectedAnswer);
124             }
125         });
126
127         dialog.show();
128
129     }
130     private void checkAnswer(int selectedAnswer){
131         if(selectedAnswer != answer){
132
133             db.insertScore(username,round,questionCount);
134
135             Intent intent = new Intent(getApplicationContext(),StatusActivity.class);
136             intent.putExtra("status","lose");
137             intent.putExtra("correctQuestions",round);
138             intent.putExtra("totalRounds",questionCount);
139             startActivity(intent);
140         }else if(round == questionCount){
141             round++;
142             Intent intent = new Intent(getApplicationContext(),StatusActivity.class);
```

```
143                 intent.putExtra("status","win");
144                 intent.putExtra("correctQuestions",questionCount);
145                 intent.putExtra("totalRounds",questionCount);
146                 startActivity(intent);
147             }else{
148                 round++;
149 
150                 loadQuestion();
151                 loadAnswers();
152                 textViewQuestionCount.setText(String.format("%d/%d",round,questionCount));
153             }
154 
155         }
156         private void loadAnswers(){
157             Random rand = new Random();
158             int firstAnswer = rand.nextInt(200) + 2;
159             int secondAnswer = rand.nextInt(200) + 2;
160             int thirdAnswer = rand.nextInt(200) + 2;
161             int realAnswer = answer;
162 
163             TextView[] textViews = new TextView[]{textViewAnswer1,textViewAnswer2,
                textViewAnswer3,textViewAnswer4};
164             int textViewCounter = 0;
165 
166             List<Integer> answers = new ArrayList<>();
167             answers.add(firstAnswer);
168             answers.add(secondAnswer);
169             answers.add(thirdAnswer);
170             answers.add(realAnswer);
171 
172             while(answers.size() != 0){
173                 Random answersRandom = new Random();
174                 int randomAnswerIndex = answersRandom.nextInt(answers.size());
175 
176                 int answer = answers.get(randomAnswerIndex);
177                 textViews[textViewCounter].setText(Integer.toString(answer));
178 
179                 textViews[textViewCounter].setOnClickListener(new View.OnClickListener() {
180                     @Override
181                     public void onClick(View v) {
182                         selectAnswer(answer);
183                     }
184                 });
185                 textViewCounter++;
186                 answers.remove(randomAnswerIndex);
187             }
188 
189         }
190         private CountDownTimer initializeTimerAndReturn(long millisInFuture,long
            countDownInterval){
191             return new CountDownTimer(millisInFuture,countDownInterval) {
192                 @Override
193                 public void onTick(long millisUntilFinished) {
194                     textViewTimer.setText(Long.toString(millisUntilFinished/1000));
195                 }
196 
197                 @Override
198                 public void onFinish() {
199                     Intent intent = new Intent(getApplicationContext(),StatusActivity.
                        class);
200                     intent.putExtra("status","lose");
201                     intent.putExtra("correctQuestions",round);
202                     intent.putExtra("totalRounds",questionCount);
203                     startActivity(intent);
204                 }
205             };
206         }
207     }
```