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Flutter Program: Quiz App Observation

Main.dart

```dart
// lib/main.dart
import 'package:flutter/material.dart';
import 'question.dart';

void main() {
  runApp(MaterialApp(
    home: SafeArea(
      child: Scaffold(
        body: QuizPage(),
      ),
    ),
  ));
}

class QuizPage extends StatefulWidget {
  const QuizPage({Key? key}) : super(key: key);

  @override
  _QuizPageState createState() => _QuizPageState();
}

class _QuizPageState extends State<QuizPage> {
  int questionNumber = 0;
  int currentScore = 0;
  Questions questions = Questions();

  void updateQuestionNumber() {
    setState(() {
      questionNumber = questionNumber + 1;
    });
  }

  void updateCurrentScore(bool choice, int questionNumber) {
    if (questions.questionBank.length == questionNumber) {
      print("End of questions");
    } else {
      if (questions.questionBank[questionNumber].answer == choice) {
        setState(() {
          currentScore++;
        });
      }
    }
  }

  bool checkQuestionNumber(int questionNumber) {
    return questionNumber < questions.questionBank.length;
  }

  @override
  Widget build(BuildContext context) {
    return Column(
      mainAxisAlignment: MainAxisAlignment.center,
      children: [
```

```dart
              Center(
                child: Text(
                  checkQuestionNumber(questionNumber)
                      ? questions.questionBank[questionNumber].questionText
                      : "End",
                  style: TextStyle(fontSize: 40.0),
                  textAlign: TextAlign.center,
                ),
              ),
              SizedBox(height: 20.0),
              ElevatedButton(
                onPressed: () {
                  setState(() {
                    if (questionNumber == questions.questionBank.length) {
                      print("End of questions");
                    } else {
                      updateCurrentScore(true, questionNumber);
                      updateQuestionNumber();
                    }
                  });
                },
                child: Text('True'),
              ),
              SizedBox(width: 20.0),
              ElevatedButton(
                onPressed: () {
                  setState(() {
                    if (questionNumber == questions.questionBank.length) {
                      print("End of questions");
                    } else {
                      updateCurrentScore(false, questionNumber);
                      updateQuestionNumber();
                    }
                  });
                },
                child: Text('False'),
              ),
              SizedBox(
                height: 100.0,
              ),
              SizedBox(
                height: 50.0,
              ),
              Padding(
                padding: const EdgeInsets.all(30.0),
                child: Center(
                  child: Text(
                    "Current Score is:",
                    style: TextStyle(fontSize: 30),
                  ),
                ),
              ),
              Padding(
                padding: const EdgeInsets.all(30.0),
                child: Center(
                  child: Text(
                    '${currentScore}',
                    style: TextStyle(fontSize: 30),
                  ),
                ),
              ),
```

```
        ],
    );
  }
}
```

Question.dart

```dart
// lib/question.dart

class Question {
  final String questionText;
  final bool answer;

  Question({required this.questionText, required this.answer});
}

class Questions {
  List<Question> questionBank = [
    Question(questionText: "Is Flutter a framework for mobile app
development?", answer: true),
    Question(questionText: "Dart is a statically-typed language.
(True/False)", answer: true),
    Question(questionText: "Mount Everest is the tallest mountain.
(True/False)", answer: false),
    Question(questionText: "The capital of France is Berlin. (True/False)",
answer: false),
    Question(questionText: "The sun is a planet. (True/False)", answer:
false),
  ];
}
```

Mount Everest is the tallest mountain. (True/False)

True

False

Current Score is:

2

The capital of France is Berlin. (True/False)

True

False

Current Score is:

2

The sun is a planet. (True/False)

True

False

Current Score is:

3

End

True

False

Current Score is:

4