



CS 1102 - Unit 3 Programming Assignment Answer

Programming 1 (University of the People)

```

import javax.swing.JOptionPane;

public class Quiz {
    static int nQuestions = 0;
    static int nCorrect = 0;
    static String ask(String question) {
        while (true) {
            String answer = JOptionPane.showInputDialog(question);
            answer = answer.toUpperCase();
            boolean valid = (answer.equals("A") || answer.equals("B") ||
answer.equals("C") || answer.equals("D") || answer.equals("E"));
            if (valid) return answer;
            JOptionPane.showMessageDialog(null, "Invalid answer.
please enter A, B, C, D, or E.");
        }

    }

    static void check(String question, String correctAnswer) {
        nQuestions++;
        String answer = ask(question);
        if (answer.equals(correctAnswer)) {
            JOptionPane.showMessageDialog(null, "Correct!");
            nCorrect++;
        } else {
            JOptionPane.showMessageDialog(null, "Incorrect. The correct
answer is "+correctAnswer+".");
        }
    }

    public static void main(String[] args) {
        String question = "What is the national airline of the state of
Qatar?\n";

        question += "A. Etihad Airways\n";
        question += "B. Fly Emirates\n";
        question += "C. Cathay Pacific\n";
        question += "D. Qatar Airways\n";
        question += "E. Eva air\n";
        check(question, "D");

        question = "What is the airport name of the state of
Qatar?\n";

        question += "A. Hamad International Airport\n";
        question += "B. King Abdul Aziz International Airport\n";
        question += "C. John F. Kennedy International Airport\n";
        question += "D. O'Hare International Airport\n";
        question += "E. Suvarnabhumi Airport\n";
        check(question, "A");

        question = "What is the capital of the state of Qatar?\n";
        question += "A. Najma\n";
        question += "B. Al Khor\n";
        question += "C. Doha\n";
    }
}

```

```
        question += "D. Ras Abu Abood\n";
        question += "E. Mushereib\n";
        check(question, "C");

        JOptionPane.showMessageDialog(null, nCorrect+" correct out
of "+nQuestions+" questions");
    }

    // TODO Auto-generated method stub

}
```

Input

?

What is the national airline of the state of Qatar?

- A. Etihad Airways
- B. Fly Emirates
- C. Cathay Pacific
- D. Qatar Airways
- E. Eva air

OK Cancel

Message

i

Correct!

OK

Input

?

What is the airport name of the state of Qatar?

- A. Hamad International Airport
- B. King Abdul Aziz International Airport
- C. John F. Kennedy International Airport
- D. O'Hare International Airport
- E. Suvarnabhumi Airport

OK Cancel

Input

?

What is the capital of the state of Qatar?

- A. Najma
- B. Al Khor
- C. Doha
- D. Ras Abu Abood
- E. Mushereib

OK Cancel

Message

i

Incorrect. The correct answer is D.

OK

Message

i

Invalid answer. please enter A, B, C, D, or E.

OK

Message

i

2 correct out of 3 questions

OK

