

# CASE NO. 3

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Case3Angulo.java

import java.util.Scanner;

public class Case3Angulo {
    public static void main(String[] args) {
        int correctCount = 0;
        final int TOTAL_QUESTIONS = 5;

        Scanner kb = new Scanner(System.in);

        System.out.println("===== Welcome to the Quiz App =====\n");

        // Questions and options
        String[] questions = {
            "What planet is known as the Red Planet?",
            "Who is known as the King of Pop?",
            "What is the largest mammal?",
            "Which element has the chemical symbol 'O'?",
            "What is the capital of the Philippines?"
        };

        String[][] options = {
            { "a. Mars", "b. Earth", "c. Jupiter", "d. Saturn" },
            { "a. Elvis Presley", "b. Michael Jackson", "c. Prince", "d. Justin Bieber" },
            { "a. Elephant", "b. Shark", "c. Giraffe", "d. Blue Whale" },
            { "a. Gold", "b. Oxygen", "c. Silver", "d. Iron" },
            { "a. Baguio", "b. Cebu", "c. Manila", "d. Nueva Ecija" }
        };

        // Correct answers stored in array
        char[] correctAnswers = { 'a', 'b', 'd', 'b', 'c' };

        for (int i = 0; i < TOTAL_QUESTIONS; i++) {
            correctCount = askQuestion(kb, questions[i], options[i][0], options[i][1], options[i][2], options[i][3], correctAnswers[i], correctCount);
        }

        int incorrectCount = TOTAL_QUESTIONS - correctCount;
        double percentageCorrect = ((double) correctCount / TOTAL_QUESTIONS) * 100;

        System.out.println("===== Quiz Complete! =====");
        System.out.println("Correct Answers: " + correctCount + "/" + TOTAL_QUESTIONS);
        System.out.println("Incorrect Answers: " + incorrectCount + "/" + TOTAL_QUESTIONS);
        System.out.println("Percentage Correct: " + percentageCorrect + "%");
        System.out.println("=====");
    }

    // Method to ask a question and check the answer
    public static int askQuestion(Scanner kb, String question, String option1, String option2, String option3, String option4, char correctAnswer, int correctCount) {
        System.out.println("===== Question =====");
        System.out.println(question);
        System.out.println(option1 + "\n" + option2 + "\n" + option3 + "\n" + option4);
        System.out.print("Your answer: ");

        char answer = kb.next().charAt(0);

        if (answer == correctAnswer) {
            correctCount++;
            System.out.println("Correct!\n");
        } else {
            System.out.println("Incorrect. The correct answer is " + correctAnswer + ".\n");
        }

        return correctCount;
    }
}
```

```
Case3Angulo.java

CEDRIC@DESKTOP-0G7VTBI MINGW64 /d/0010/Documents/Acads/BSIT 2A/Case Problems
$ java Case3Angulo
===== Welcome to the Quiz App =====

===== Question =====
What planet is known as the Red Planet?
a. Mars
b. Earth
c. Jupiter
d. Saturn
Your answer: a
Correct!

===== Question =====
Who is known as the King of Pop?
a. Elvis Presley
b. Michael Jackson
c. Prince
d. Justin Bieber
Your answer: b
Correct!

===== Question =====
What is the largest mammal?
a. Elephant
b. Shark
c. Giraffe
d. Blue Whale
Your answer: a
Incorrect. The correct answer is d.

===== Question =====
Which element has the chemical symbol 'O'?
a. Gold
b. Oxygen
c. Silver
d. Iron
Your answer: b
Correct!

===== Question =====
What is the capital of the Philippines?
a. Baguio
b. Cebu
c. Manila
d. Nueva Ecija
Your answer: c
Correct!

===== Quiz Complete! =====
Correct Answers: 4/5
Incorrect Answers: 1/5
Percentage Correct: 80.0%
=====
```