HEAVEN'S LIGHT IS OUR GUIDE

RAJSHAHI UNIVERSITY OF ENGINEERING AND TECHNOLOGY

COURSE TITLE: Software Engineering & Information System Design Sessional

COURSE NO: ECE 3118

Lab report Submission

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Experiment No.: 02

Experiment Name: Best Coding Practices.

Theory:

Camel case, snake case, kebab case, and Pascal case are naming conventions used in programming to format identifiers (like variable names, function names, etc.). Here's a breakdown of each convention with examples and their common usage in various programming languages:

1. Camel Case

The first letter of the first word is lowercase, and the first letter of each subsequent word is capitalized.

2. Snake Case

Words are separated by underscores, and all letters are typically lowercase.

3. Kebab Case

Similar to snake case, but words are separated by hyphens. It is generally not used for variable names in programming languages but often found in URLs or configuration files.

4. Pascal Case

Similar to camel case, but the first letter of the first word is also capitalized.

Naming Convention	Example	Common Languages
Camel Case	myVariableName	JavaScript, Java, C#
Snake Case	my_variable_name	Python, Ruby, C, C++
Kebab Case	my-variable-name	URLs, CSS, some JavaScript frameworks
Pascal Case	MyVariableName	C#, .NET, Java (class names)

```java
public class PascalCaseExample { // PascalCase: Class names in Java typically follow this convention

    // camelCase: Method and variable names typically use this convention
    public static void main(String[] args) {
        int numberOfStudents = 25; // camelCase
        int student_count = 0;      // snake_case: Rare in Java, but seen in some cases
        String url = "https://example.com/course-enrollment"; // Example of kebab-case in a URL

        // Calling a method with camelCase
        enrollStudents(numberOfStudents, student_count);

        // PascalCase is often used in classes or constructors, but not in variables or methods
        PascalCaseExample exampleInstance = new PascalCaseExample();
        exampleInstance.displayMessage();
    }

    // camelCase: Method names use this convention
    public static void enrollStudents(int numberOfStudents, int student_count) {
        // Code to enroll students
        student_count = numberOfStudents;
        System.out.println("Total enrolled students: " + student_count);
    }

    // Another camelCase method
    public void displayMessage() {
        System.out.println("Hello, this is a PascalCase example class.");
    }
}
```

Reference:

https://medium.com/@salmankhan_27014/a-comprehensive-guide-to-understanding-naming-conventions-camel-case-vs-pascal-case-vs-kebab-case-e8d3bf1e14db#:~:text=For%20instance%2C%20use%20Pascal%20case,to%20ensure%20uniformity%20and%20collaboration.