

**TAGOLOAN COMMUNITY COLLEGE**

**Baluarte, Tagoloan, Misamis Oriental**

*Member: Association of Local Colleges and Universities (ALCU)*

*Member: (ALCU-Commission on Accreditation)*

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**COLLEGE OF INFORMATION TECHNOLOGY**

*Member: Philippine Society of Information Technology Educators (PSITE)*

***Secondary Education Grading System***

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**Overview**

**Introduction**

Secondary education is an important phase in a student's academic career, establishing the groundwork for future academic endeavors and further education. The grading system is an important component in this educational setting since it serves as a measure for evaluating student performance, measuring academic progress, and providing informative feedback. By digging into their complicated domain, this study intends to assess the techniques and elements.

A secondary grading system enhanced by technology offers benefits such as efficient data management, quick assessment turnaround, personalized feedback, and the ability to track student progress in real-time, fostering a more dynamic and responsive learning environment.

Without a grading system, there might be challenges in objectively measuring and communicating students' academic performance. This could lead to a lack of standardized evaluation, making it difficult for institutions to assess students consistently and hindering their ability to make informed decisions about placements, scholarships, or academic interventions. Additionally, a grading system helps establish clear expectations and benchmarks for students.

A grading system holds significant importance in education for several reasons Objective EvaluationIt provides an objective and standardized method to evaluate and compare students' academic performance, ensuring fairness in assessment.In essence, a grading system is a fundamental component of the educational framework, contributing to the effectiveness of teaching and learning processes.

Standardization and consistency to ensure a consistent and standardized approach to grading across all instructors and courses to promote fairness and equity. Establish effective communication channels with students, parents, and other stakeholders to ensure they understand the grading system, criteria, and its significance. By setting and working towards these goals collaboratively, educators and administrators can contribute to the development of a grading system that supports student learning and success.

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**Objective**

**General Objective:**

The main objective is to create grading system to assist the teachers in computing the grades of students in a short time and to have a fair grading system.

**Specific Objective:**

* Student's allow users to input information, grades, and the computed grades
* Ensure the correct calculation of grades
* Reduce the process of calculating grades

**Scope and Limitations**

**Scope:**

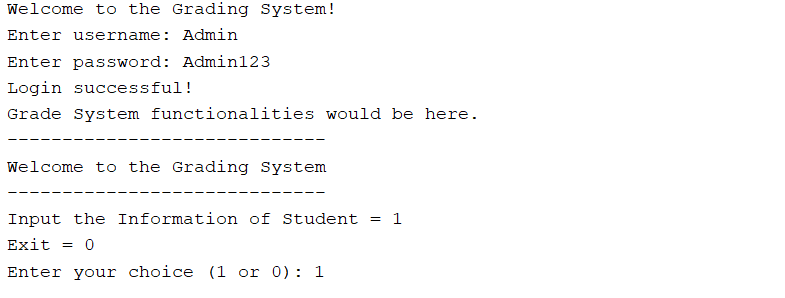
Academic Assessment: The primary purpose of a grading system is to assess and communicate students' academic performance accurately. It provides a motivational tool for students, encouraging them to set goals, work towards improvement, and take ownership of their learning.

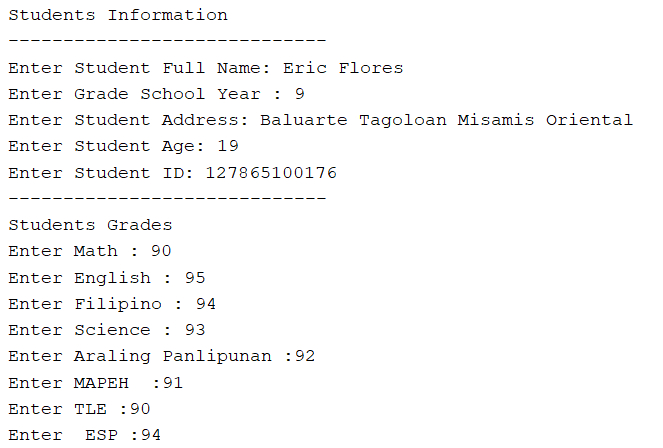
**Limitations:**

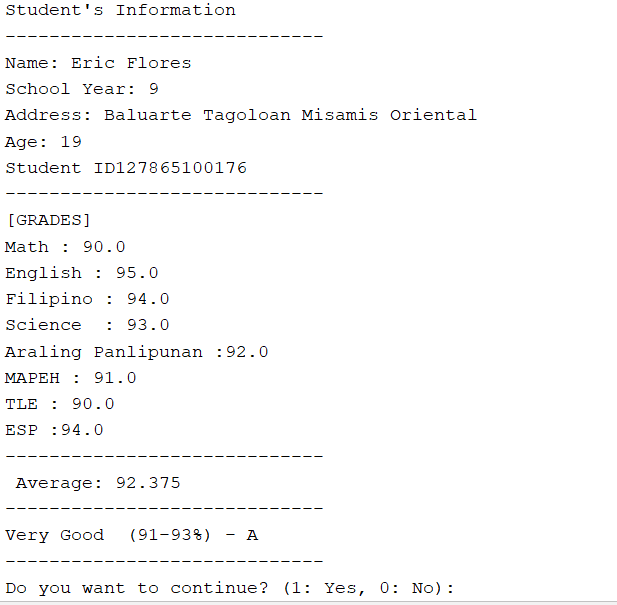
Subjectivity grading can be subjective, influenced by individual teacher preferences and biases, leading to inconsistencies. It may not capture the full range of a student's abilities, as some skills and qualities may not be easily quantifiable or assessed through traditional grading methods.

**A diagram of a flowchart

Description automatically generated**

**Program Process**

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**Program Code**

import java.util.Scanner;

public class GradingSystem {

public static void main(String[] args) {

Scanner console = new Scanner(System.in);

String USERNAME = "Admin";

String PASSWORD = "Admin123";

Scanner scanner = new Scanner(System.in);

System.out.println("Welcome to the Grading System!");

// Login process

boolean loggedIn = false;

int attempts = 3;

while (!loggedIn && attempts > 0) {

System.out.print("Enter username: ");

String usernameInput = scanner.nextLine();

System.out.print("Enter password: ");

String passwordInput = scanner.nextLine();

if (usernameInput.equals(USERNAME) && passwordInput.equals(PASSWORD)) {

System.out.println("Login successful!");

loggedIn = true;

} else {

attempts--;

if (attempts > 0) {

System.out.println("Invalid credentials. Attempts left: " + attempts);

} else {

System.out.println("Too many invalid attempts. Exiting...");

}

}

}

if (loggedIn) {

System.out.println("Grade System functionalities would be here.");

int choice;

do {

System.out.println("-----------------------------");

System.out.println("Welcome to the Grading System");

System.out.println("-----------------------------");

System.out.println("Input the Information of Student = 1");

System.out.println("Exit = 0");

System.out.print("Enter your choice (1 or 0): ");

while (!console.hasNextInt()) {

System.out.println("Invalid input. Please enter 1 or 0.");

console.next();

}

choice = console.nextInt();

console.nextLine();

if (choice != 1 && choice != 0) {

System.out.println("Invalid input. Please enter 1 or 0.");

continue;

}

switch (choice) {

case 1:

System.out.println("");

System.out.println("Student Information");

System.out.println("-----------------------------");

System.out.print("Enter Student Full Name: ");

String fullName = console.nextLine();

System.out.print("Enter Grade School Year: ");

String course = console.nextLine();

System.out.print("Enter Student Address: ");

String address = console.nextLine();

System.out.print("Enter Student Age: ");

int age = console.nextInt();

console.nextLine();

System.out.print("Enter Student ID: ");

long StudentId = console.nextLong();

console.nextLine();

System.out.println("-----------------------------");

System.out.println("Student Grades");

double g1, g2, g3, g4 , g5 , g6 , g7, g8;  
  
do {

System.out.print("Enter Math : ");

g1 = console.nextDouble();

} while (g1 < 0 || g1 > 100);

do {

System.out.print("Enter English : ");

g2 = console.nextDouble();

} while (g2 < 0 || g2 > 100);

do {

System.out.print("Enter Filipino : ");

g3 = console.nextDouble();

} while (g3 < 0 || g3 > 100);

do {

System.out.print("Enter Science : ");

g4 = console.nextDouble();

} while (g4 < 0 || g4 > 100);

do {

System.out.print("Enter Araling panlipunan : ");

g5 = console.nextDouble();

} while (g5 < 0 || g5 > 100);

do {

System.out.print("Enter Mapeh : ");

g6 = console.nextDouble();

} while (g6 < 0 || g6 > 100);

do {

System.out.print("Enter TLE : ");

g7 = console.nextDouble();

} while (g7 < 0 || g7 > 100);

do {

System.out.print("Enter ESP : ");

g8 = console.nextDouble();

} while (g8 < 0 || g8 > 100);

double sum = g1 + g2 + g3 + g4 + g5 + g6 + g7 + g8;

double avg = sum / 8;

System.out.println("Student's Information");

System.out.println("-----------------------------");

System.out.println("Name: " + fullName);

System.out.println("School Year: " + course);

System.out.println("Address: " + address);

System.out.println("Age: " + age);

System.out.println("Student ID" + StudentId);

System.out.println("-----------------------------");

System.out.println("[GRADES]");

System.out.println("Math : " + g1);

System.out.println("English : " + g2);

System.out.println("Filipino : " + g3);

System.out.println("Science : " + g4);

System.out.println("Araling Panlipunan :" + g5);

System.out.println("MAPEH : " + g6);

System.out.println("TLE : " + g7);

System.out.println("ESP :" + g8);

System.out.println("-----------------------------");

System.out.println(" Average: " + avg);

System.out.println("-----------------------------");

if (avg >= 94 && avg <= 100) {

System.out.println("Excellent (94-100%) - A+");

} else if (avg >= 91 && avg <= 93) {

System.out.println("Very Good (91-93%) - A");

} else if (avg >= 88 && avg <= 90) {

System.out.println("Good (88-90%) - B+");

} else if (avg >= 85 && avg <= 87) {

System.out.println("Satisfactory (85-87%) - B");

} else if (avg >= 80 && avg <= 84) {

System.out.println("Fair Enough (80-84%) - B-");

} else if (avg >= 75 && avg <= 79) {

System.out.println("Pass (75-79%) - C ");

} else if (avg >= 0 && avg <= 74) {

System.out.println(" Fail (70-74%) - F ");

} else {

System.out.println(" Below C - Keep grinding for success!");

}

break;

case 0:

System.out.println("Exiting the Grading System. Goodbye!");

break;

}

if (choice != 0) {

System.out.print("Do you want to continue? (1: Yes, 0: No): ");

int continueChoice;

while (!console.hasNextInt()) {

System.out.println("Invalid input. Please enter 1 or 0.");

console.next();

}

continueChoice = console.nextInt();

console.nextLine();

if (continueChoice != 1) {

System.out.println("Goodbye!");

break;

} else {

System.out.println("Thank you");

}

}

} while (choice != 0);

}

}

}