### ASSIGNMENT-6

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# 1. Calculating the Final Grade of a Student

public class StudentGrade {

public static void main(String[] args) {

String studentName = "Alice";

int assignmentScore = 85;

int midtermScore = 78;

int finalExamScore = 92;

String finalGrade = calculateFinalGrade(assignmentScore, midtermScore, finalExamScore);

System.out.println(studentName + "'s final grade is " + finalGrade + ".");

}

public static String calculateFinalGrade(int assignmentScore, int midtermScore, int finalExamScore) {

double finalScore = (assignmentScore \* 0.3) + (midtermScore \* 0.3) + (finalExamScore \* 0.4);

if (finalScore >= 90) {

return "A";

} else if (finalScore >= 80) {

return "B";

} else if (finalScore >= 70) {

return "C";

} else if (finalScore >= 60) {

return "D";

} else {

return "F";

}

}

}

# 2. Calculating the Mileage of a Car

public class CarMileage {

public static void main(String[] args) {

String carModel = "Toyota Camry";

double distanceTraveled = 300;

double fuelConsumed = 15;

double mileage = calculateMileage(distanceTraveled, fuelConsumed);

System.out.println("The mileage of " + carModel + " is " + mileage + " miles per gallon.");

}

public static double calculateMileage(double distanceTraveled, double fuelConsumed) {

return distanceTraveled / fuelConsumed;

}

}

# 3. Calculating the Fine for Overdue Books

public class LibraryFine {

public static void main(String[] args) {

String bookTitle = "Harry Potter";

int daysOverdue = 5;

double finePerDay = 0.50;

double totalFine = calculateTotalFine(daysOverdue, finePerDay);

System.out.println("The fine for " + bookTitle + " is $" + totalFine + ".");

}

public static double calculateTotalFine(int daysOverdue, double finePerDay) {

return daysOverdue \* finePerDay;

}

}

**OUTPUTS:**

 

