

CPSC1012 Object Problems- 2

Test your understanding of this material by answering the following questions by coding each of the questions:

1. Create a Quiz class based on the following UML diagram:

Quiz
<ul style="list-style-type: none">- studentName: String- total: Integer- mark: Integer- weight: Integer
<ul style="list-style-type: none">+ StudentName: String+ Total: Integer+ Mark: Integer+ Weight: Integer
<ul style="list-style-type: none">+ Quiz(Total: Integer, Weight: Integer)+ GetPercentage(): Real

The total and weight must be provided when the Quiz is created. The GetPercentage() method should return the grade of the quiz as a percentage (i.e., Total is 10 and Mark is 6, then the percentage is 60).

2. Use the Quiz class to solve the following problem.

Create a program that will allow an instructor to enter the quiz marks for a class. The instructor will need to enter up to 25 quizzes into the program (use an array to hold the quizzes.) Once the quizzes have all been entered, display each quiz along with its percentage in a table format. Also display the average quiz grade.