Assignment 5: Decisions

Task 1: Grading System

A professor needs to grade his students using Python if-elif-else statements. Given the grading criteria: A (> 80) B (70 - 80) C (60 - 70) D (50 - 60) F (< 50).
If a student receives an F, but their assignment score is greater than 25, the student is given a chance to take a retest.

Construct a Python program that accepts two integer inputs: test score (not more than 60) and assignment score (not more than 40). The program should print the student's grade, total score, and indicate if the student needs a retest.

> **Answer**
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Task 2: Pythagoras Theorem

The program accepts three inputs: `a`, `b`, and `c`, which represent the sides of a triangle. It checks whether these numbers can form a valid triangle. If they can, the program further checks if the triangle satisfies the Pythagorean theorem, indicating that it is a right triangle.

> **Answer**
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