CSE303: Statistics for Data Science

Assignment – Lab 0 (Basic Python Programming)

Problem 1

Write a Python code segment that asks for three positive integers representing the sides of a triangle, and determine whether they form a valid triangle. If they form a valid triangle, then also calculate the value of the area of the triangle.

(Hint: If the sum of any two side lengths is greater than the third in every combination, as it is for this triangle, then you've determined that the triangle is valid. If the rule is invalid for even just one combination, then the triangle is invalid.)

Problem 2

Write a Python code segment that asks for your marks in three courses and shows the letter grade of each course. Use the following grading rule for finding the letter grade.

Marks	Grades	GradePoint
95-100	A	4.0
85-94	B	3.5
70-84	C	3.0
60-69	D	2.5
0-59	F	0.0

Also, calculate your Term GPA. To do that, you need to enter the credits for each course.