

11th June 2024, Tuesday

CSC212 Writer: Osculation

A program to Read the scores of 50 students one at a time and compute and print their total and average scores. Each student sat for three exams each.

Solution

Program Totalscores

Real Sum, Avg, score1, score2, score3

Integer Counter

Open (Unit = 5, File = 'IN.SCR', STATUS = 'OLD')

Open (Unit = 6, File = 'OUT.SCR', STATUS = 'NEW')

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DO 60 counter = 1, 80

sum = 0.0

READ(4, 20) score1, score2, score3

sum = score1 + score2 + score3

avg = sum / 3

write(6, 30) counter, score1, score2, score3

write(6, 40) sum, avg

10 continue

stop

20 format (3(f6.2, 2x))

30 format (11, 'student', I2, 1, 'score 1',

6 score', 2x, f8.2, 1 'score 2', 2x, f8.2x)

40 format (1, 'Total And Average = S2x,

2(f6.2, 2x), 1 'respectively', 11)

END

Class Assignment

Write a program to compute the root of 30 quadratic equations of the form:

$$ax^2 + bx + c = 0$$

Using the formula:

$$x_1 = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

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$$x_2 = \frac{-b - \sqrt{b^2 - 4ac}}{2a}$$

Provided the discriminant

$$D = b^2 - 4ac \geq 0$$

Represent the program in a
flowchart.

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