```
% Compute MATH151 Grade.m
%______
% C Rocheleau, Colorado State University
% 8/5/2023
8-----
% This script can be used to calculate a grade for the Fall 2023 semester
% MATH-151 course. But it is also intended to be used as a quick demo into
% how Matlab works and some processing concepts
% I usually start scripts with this, it basically wipes Matlab clean
% close plot windows; forget all variables in memory; clear the command
window;
close all; clear all; clc;
% Grading Scheme. Also note, I like to align = signs for readability
journal_pct = 0.05;
        = 0.80;
lab pct
final_pct = 0.15;
% Student Grades
journal score = 94;
lab score
          = 86;
final_score = 100;
% Calculate the student's total grade
grade = journal_score*journal_pct + lab_score*lab_pct + final_score*final_pct;
display(grade)
% Oh! My lab grading was a bit hard. Lets apply a curve!
lab_score = lab_score + 5;
% When statements get long we can use ... to split it to multiple lines
scaled grade = journal score*journal pct + ...
             lab_score*lab_pct +
             final_score*final_pct;
display(scaled_grade)
% Finally, remember all variable named are case sensitive
journal_grade = journal_score*journal_pct; % This will give an error message
because J is capitalized
% Lastly lets calculate the average grade in the class
student_grades = [91, 88, 99, 96, 87]; % lolwut is this?
average_grade = mean(student_grades); % mean? What is that doing?
display(average_grade)
grade =
  88.5000
scaled grade =
  92.5000
```

average_grade =
 92.2000

Published with MATLAB® R2023a