

Programming Assignment 02

Assigned: Wednesday 3 September

Due: By start of class, Wednesday 10 September

Create a MATLAB script that will

1. Ask the user for the initial speed (ft/min), acceleration (ft/min²), and time (min) of acceleration for a race car.
2. Calculate the final speed and distance traveled during the acceleration period.
3. Report the final speed and distance traveled in SI units.

Turn in

1. A 3.5in floppy with your script (saved as pa02xxx.m where xxx is your initials).
your floppy should be labeled w/ your name and
programming assignment number
2. A copy of the evaluation criteria sheet on the following page (with your name filled in!).
3. A printout of your script
4. A copy of a screen display that tests your script with an initial speed of 56 ft/min, acceleration of 13.4 ft/min², and acceleration time of 2 minutes.
5. Please staple (do not dog ear) items 2, 3, and 4 together.

You will be evaluated on programming style as well as correctness of results. Your script must contain

1. The full header section (w/ needs and results)
2. A variable dictionary
3. Appropriate comments/whitespace
4. Request to the user for values
5. Readably annotated response(s)
6. Pleasing screen display

The evaluation algorithm is provided on the following page.

Programming Assignment 02 - Evaluation Criteria

Name _____

Criteria	Points Available	Points Awarded
Program Style		
Header	15	
Variable Dictionary	15	
Whitespace/Readability	15	
Comments	15	
Organization	15	
Program Function		
User Interface	15	
Results	20	
	Total Pts:	/110