

Exercises for Day 3

Exercise 1. Modify your Exercise 2 code from the Day 2 Exercises as follows:

- Suppress all unnecessary output with ;
- Add good commenting throughout your code
- Include a Data section where you define all of the variables, a Calculation section, and an Output section
- Use the following coefficients: $a = -1.5$, $b = 20.6$, and $c = 30.4$
- Print the input coefficients and the values of the roots to a text file using variables and the following format:

When $a = \text{XX.X}$, $b = \text{XX.X}$, and $c = \text{XX.X}$, the first root is XX.XX
and the second root is XX.XX .

Using the homework template, submit the code in your script and the output to the text file.

Exercise 2. Modify your Exercise 4 code from the Day 2 Exercises as follows:

- Suppress all unnecessary output with ;
- Add good commenting throughout your code
- Include a Data section where you define all of the variables (be sure to include units in the comments), a Calculation section, and an Output section
- Use a launch speed of 70 m/s, a launch angle of 50° , and a flight time of 4 seconds
- Print the input data to a text file using variables and `%#. #f`. Use appropriate words and the following format:
 - launch speed in fixed-point notation with 5 total places and 2 decimal places
 - launch angle in fixed-point notation with 2 total places and no decimals
 - flight time in fixed-point notation with 1 total place and no decimals
- In the same text file, print the answers for vertical velocity, x-position, and y-position with appropriate words and the following format:
 - vertical velocity in exponential format with 20 total places and 10 digits after the decimal point
 - displacements in exponential format with 15 total places and 6 digits after the decimal point

Using the homework template, submit the code in your script and the output to the text file.

By now you should understand that this is our standard practice for homework submission, so we will not repeat these instructions in future assignments.