Advanced Programming Techniques

HW#1 -- Math table

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(Report)

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TABLE NAME:

Velocities table

2. ABSTRACT:

Velocities table shows the velocities magnitude for given time and distance and

d= [1, 1.5, 2, 2.5, 3, 3.5]

t= [1, 2, 3, 4, 5, 6, 7, 8, 9]

Where:

$$v = \frac{d}{t}$$

d: distance

t: time

3. FUNCTIONS:

3.1 function velocity(t, d, f=2):

 This function calculates the velocity for given t and d and return the magnitude as string converted to a fixed-point notation with the indicated number of decimal places, 2 decimal places if not indicted.

3.2 function doTable():

This function shows the values of d array in the header of the table and time values in the beginning of each row and maps every velocity magnitude to its related (d , t) values.