MAT-03C Array Accessing HW

Note:

Before beginning your homework, refer to the ENGR_1187_Homework_Formatting_and_Tips.pdf document on Carmen.

Your homework must be submitted in the format outlined in the document referenced above to the Carmen dropbox before the next class.

E-mail your instructor with any questions you have.

Homework Problems (MATLAB Book):

- Chapter: 2
- Problems: [20, 29, 35]

Special Instructions

Problem 20:
Create `vctD` using the colon operator
- First use the length command to calculate the number of elements in `vctD`
- This will tell you that there is an error in the problem ( `vctD` has 10 elements)
- Use the colon operator for one reference to `vctD` in order to create `vctDop` (Do not type the elements of `vctDop` individually).

Problem 29:
Create the arrays `a` and `b` manually by typing elements.
For part (b) create the 6x2 matrix in 2 different ways:
- The first way use a single reference to array `b`
- The second way use 2 references to array `b`.

The arrays for all parts, (a), (b) need to be created by extracting elements from the array `A`.
Use colon operator(s) and [ ] where appropriate. (Do not type the elements of `vctDop` individually)
**Problem 35:**
Skip the reshape step. Create the first row of array $D$ using linspace.
Create the second, third and fourth row with the use of the colon operator.
Create the array for part (a) with a single reference to $D$ (the letter D must appear only once in the RHS). You will have to use the reshape command for this.
Your answer must appear as:

$$ Da = 
\begin{bmatrix}
1.5000 \\
2.0000 \\
2.5000 \\
3.0000 \\
9.6000 \\
9.1000 \\
8.6000 \\
8.1000 
\end{bmatrix} $$

The arrays for parts a, b, c need to be created by extracting elements from the array $D$. Use colon operator(s), [ ], and transpose operator where appropriate.

**Additional Homework Problems:**

**Problem A:**
1. Create and assign to variables the strings ‘My class is: ’ and ‘ENGR1187’
2. Concatenate the two strings to create a single string ‘My class is: ENGR1187’ and assign the new string to a new variable. Display the results using disp()
3. Extract the ‘1187’ portion from the string created in step 2 and assign it to a new variable. Display the results using disp()