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%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% ENGR 132 Program Description
%   ...
%
% Assignment Information
%   Assignment:        PS 04, Problem 2
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%   Paired Programmer:  Andrew Sartorio, asartor@purdue.edu
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
```

INITIALIZATION

In the INITIALIZATION section of your code, assign each vector.

```
vec1 = [8.800, 8.871, 8.813, 8.861, 8.842, 8.815, 8.755];
vec2 = [14.081, 14.175, 13.896, 13.633, 14.560, 13.478, 13.507];
```

STATISTICS CALCULATIONS

In the STATISTICS CALCULATIONS section, compute the range, mean, and standard deviation for each vector. Ensure that all computation lines are suppressed.

```
meanvec1 = mean(vec1);
rangevec1 = range(vec1);
stdvec1 = std(vec1);

meanvec2 = mean(vec2);
rangevec2 = range(vec2);
stdvec2 = std(vec2);
```

FORMATTED TEXT DISPLAY

In the FORMATTED TEXT DISPLAY section, use fprintf statements to display the statistics for each vector. Show all values with two decimal places.

```
fprintf('The mean of vector 1 is %.2f\n', meanvec1)
fprintf('The range of vector 1 is %.2f\n', rangevec1)
fprintf('The standard deviation of vector 1 is %.2f\n', stdvec1)
fprintf('The mean of vector 2 is %.2f\n', meanvec2)
fprintf('The range of vector 2 is %.2f\n', rangevec2)
fprintf('The standard deviation of vector 2 is %.2f\n', stdvec2)
```

```
The mean of vector 1 is 8.82
The range of vector 1 is 0.12
The standard deviation of vector 1 is 0.04
The mean of vector 2 is 13.90
The range of vector 2 is 1.08
The standard deviation of vector 2 is 0.40
```

COMMAND WINDOW OUTPUTS

The mean of vector 1 is 8.82 The range of vector 1 is 0.12 The standard deviation of vector 1 is 0.04 The mean of vector 2 is 13.90 The range of vecotr 2 is 1.08 The standard deviation of vector 2 is 0.40

ACADEMIC INTEGRITY STATEMENT

I/We have not used source code obtained from any other unauthorized source, either modified or unmodified. Neither have I/we provided access to my/our code to another. The project I/we am/are submitting is my/our own original work.

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