
Table of Contents

.....	1
INITIALIZATION	1
STATISTICS CALCULATIONS	1
FORMATTED TEXT DISPLAY	2
COMMAND WINDOW OUTPUT	2
ACADEMIC INTEGRITY STATEMENT	2

```
function [] = PS04_stats_script_hkolagan_asartor()

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% ENGR 132
% Program Description
%   Displays mean, range, and standard deviation for 2 vectors in a
%   script
%   file
%
% Function Call
%   PS04_stats_script_hkolagan_asartor

% Input Arguments
%   none

% Output Arguments
%   none

% Assignment Information
%   Assignment:      PS 04, Problem 2
%   Author:          Harith Kolaganti, hkolagan@purdue.edu
%   Team ID:         005-12
%   Paired Programmer: Andrew Sartorio, asartor@purdue.edu
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
```

INITIALIZATION

STATISTICS CALCULATIONS

```
meanvec1 = mean(vec1);
```

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

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

Undefined function or variable 'vec1'.

Error in PS04_stats_nino_hkolagan_asartor (line 30)
meanvec1 = mean(vec1);

FORMATTED TEXT DISPLAY

8. Copy relevant sections from your script into the UDF. Fix them as necessary to make them work within the UDF.

```
fprintf('The mean of vector 1 is %.2f\n', vec1)  
fprintf('The range of vector 1 is %.2f\n', vec1)  
fprintf('The standard deviation of vector 1 is %.2f\n', vec1)  
fprintf('The mean of vector 2 is %.2f\n', meanvec2)  
fprintf('The range of vecotr 2 is %.2f\n', rangevec2)  
fprintf('The standard deviation of vector 2 is %.2f\n', stdvec2)
```

COMMAND WINDOW OUTPUT

10. Paste as comments the function call and the displayed text to the COMMAND WINDOW OUTPUTS section of the code.

```
% PS04_stats_script_hkolagan_asartor  
% 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.

