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```
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% ENGR 133
% Program Description:
%
% Assignment Information
%   Assignment:      Ma3 Task2
%   Team ID:         LC1-04
%   Contributor:     Ayush Viswanathan, Jackson Bitterolf, Nolan Hays,
%   Roshan Sundar
%   My contributor(s) helped me:
%       [ ] understand the assignment expectations without
%           telling me how they will approach it.
%       [ ] understand different ways to think about a solution
%           without helping me plan my solution.
%       [ ] think through the meaning of a specific error or
%           bug present in my code without looking at my code.
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
```

INITIALIZATION

```
first point

p1_x = 4; % inches
p1_y = 4; % inches

% second point
p2_x = 5; % inches
p2_y = 5; % inches
```

CALCULATIONS

```
calculate length of line between the 2 points in inches
```

```
L_in = sqrt((p2_x - p1_x)^2) + ((p2_y - p1_y)^2)); % inches
% convert to cm using function
L_cm = Ma3_Task2_INtoCM_04(L_in); % cm
```

OUTPUTS

display lengths in inches and cm

```
fprintf('Length in inches: %f\n', L_in)
fprintf('Length in cm: %f\n', L_cm)

% Test Case 1
% Input: p1_x = 4, p1_y = 4, p2_x = 6, p2_y = 4
% Output: L_in = 2, L_cm = 5.08

% Test Case 2
% Input: p1_x = 4, p1_y = 4, p2_x = 5, p2_y = 5
% Output: L_in = 1.414214, L_cm = 3.592102

Length in inches: 1.414214
Length in cm: 3.592102
```

ACADEMIC INTEGRITY STATEMENT

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

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