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function [scLength,bodyMass]=PS06_sitstand_subUDF_fu194WZ(secMass,secLength,centerOfMass)

```
% ENGR 132
% Program Description
% input mass ,length of 3 parts,calculate the total mass and total
% Function Call
% [scLength,bodyMass]=PS06 sitstand subUDF fu194WZ(secMass,secLength,centerOfMass)
% Input Arguments
% secMass - 1*3 vector represent mass of 3 sections
% secLength - 1*3 vector represent length of 3 sections
% centerOfMass - 1*3 vector represent center of mass position of each
% section
응
% Output Arguments
% seLength - 1*3 vector, scaled lengths of each section
% bodyMass - double, total mass of body
응
% Assignment Information
% Assignment: PS 06, Problem 2
% Author:
               Yuefan Fu, fu194@purdue.edu
            001-05
% Team ID:
     Contributor: Name, login@purdue [repeat for each]
```

INITIALIZATION

CALCULATIONS

```
ds=(secMass(2).*secLength(1)+secMass(3).*secLength(1)+secMass(1).*centerOfMass(1))./sum(secMass);
dt=(secMass(3).*secLength(2)+secMass(2).*centerOfMass(2))./sum(secMass);
dh=(secMass(3).*centerOfMass(3))./sum(secMass);
bodyMass=sum(secMass);
```

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FORMATTED TEXT & FIGURE DISPLAYS

COMMAND WINDOW OUTPUT

```
%x =

% 0.4040 0.3555 0.2286

%y =

% 34.6200
```

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.

end

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