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function [totTime, adminDose] = PS10_infusion_hkolagan(patW, medDose)
% ENGR 132
% Program Description
 Calculates how long an infusion will last given a patient's weight
 medication dosage.
% Function Call
[totTime, adminDose] = PS10_infusion_hkolagan(patW, medDose)
% Input Arguments
1. patW
     % Patient's weight
응
 2. medDose % Medication Dose
% Output Arguments
 1. totTime % Total time for infusion
 2. adminDose % Total administered dose
% Assignment Information
 Assignment:
        PS 10, Problem 3
응
 Author:
         Harith Kolaganti, hkolagan@purdue.edu
          005 - 12
 Team ID:
```

INITIALIZATION

```
y = 0;
numberRateInc = round(0.05 * patW) + 1;
infRate = 75;
adminDose = 75;
totTime = 1;
```

```
% Input Validity Check
if (patW > 175 || patW < 40)
    fprintf('Weight is out of boundaries\n');
    y = 1;
end

if(medDose > 100 || medDose < 25)
    fprintf('Dosage is out of boundaries\n');
    y = 1;
end

Not enough input arguments.
Error in PS10_infusion_hkolagan (line 29)
numberRateInc = round(0.05 * patW) + 1;</pre>
```

CALCULATIONS

end

```
if y ~= 1
    % First Phase of Infusion
    for totTime = 2:numberRateInc
        infRate = infRate + round(0.5 * infRate);
        adminDose = adminDose + infRate;
end

% Second Phase of Infusion
while(adminDose <= (patW * medDose))
        infRate = infRate + round(0.1 * infRate);
        adminDose = adminDose + infRate;
        totTime = totTime + 1;
end</pre>
```

FORMATTED TEXT DISPLAYS

```
fprintf('Administered Dose = %d mg\n', adminDose);
fprintf('Total Time for Infusion = %d minutes\n', totTime);
```

COMMAND WINDOW OUTPUTS

PS10_infusion_hkolagan(60, 25) Administered Dose = 1543 mg Total Time for Infusion = 7 minutes

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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