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```
function[] = PS11_infusion_exec_hkolagan()

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% ENGR 132
% Program Description
%   Produces a plot of total administered medication over time of the
%   infusion.
%
% Function Call
%  PS11_infusion_exec_hkolagan()
%
% Input Arguments
%   NONE
%
% Output Arguments
%   NONE
%
% Assigment Information
%   Assignment:       PS 11, Problem 1
%   Author:             Harith Kolaganti, hkolagan@purdue.edu
%   Team ID:            005-12
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
```

INITIALIZATION

Initialize the patient's weight and dose

```
patW = 75;
medDose = 85;
```

CALCULATIONS

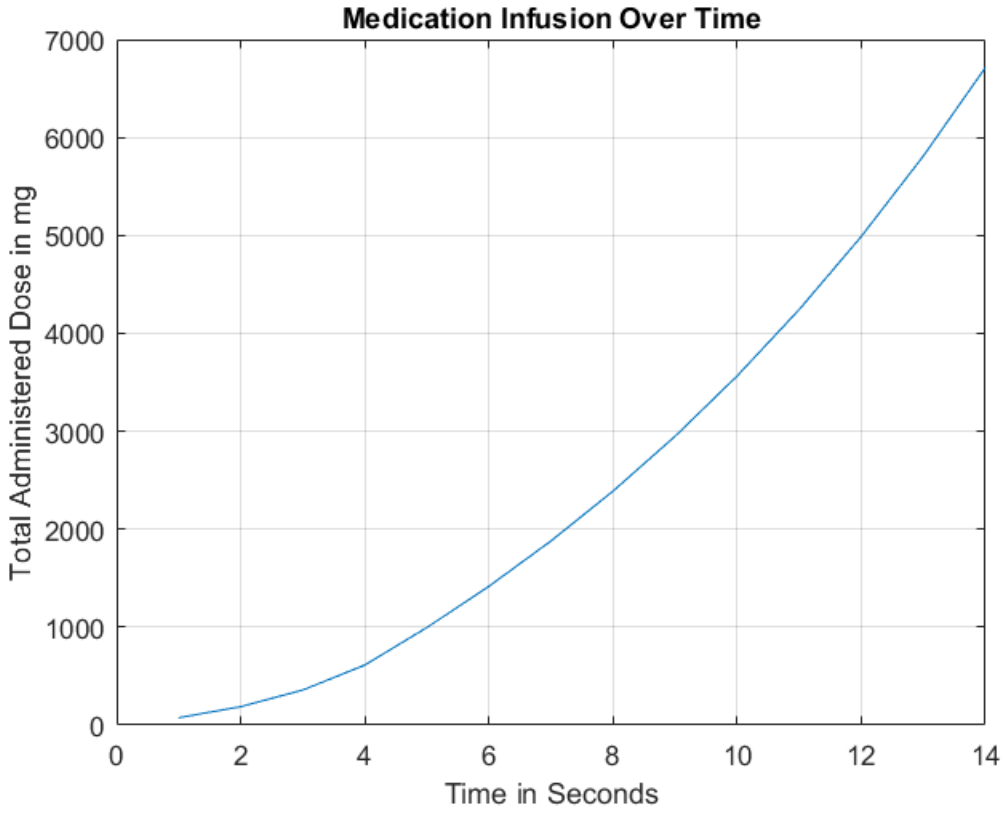
Call the sub-UDF to get the time and administered medication vectors

```
[time, totDose] = PS11_infusion_hkolagan(patW, medDose);
```

FIGURE DISPLAYS

Plot the vectors

```
plot(time, totDose)
xlabel('Time in Seconds');
ylabel('Total Administered Dose in mg');
title('Medication Infusion Over Time');
grid on;
```



COMMAND WINDOW OUTPUTS

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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