

```

function concen_applied_load_dof = MD_load_dof(concen, nnodes)
% Code developed by Mrunmayi Mungekar and Devasmit Dutta
%
% MD_load_dof.m computes the final applied load vector
%
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%
% Functions Called
%         none
% Dictionary of variables
% Input information
%         % concen = gives the applied load information along each DOF at
every node
%         % nnodes = total number of nodes
%
% Output information
%         % load_dof = final load_dof vector
%
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

% Taking the transpose of concen matrix for getting the loads associated with each
DOF at every node along the rows

load_dof = concen';

% Stacking vertically the load data at each node along the rows for obtaining the
final applied load vector

concen_applied_load_dof = reshape(load_dof,nnodes*6,1);

```