```
function memberlocalFEF = MD_computeMemberFEFs(w, L)
% Code developed by Mrunmayi Mungekar and Devasmit Dutta
% MD_computeMemberFEFs.m computes the element stiffness matrix for a given element
%
%
  Functions Called
%
            none
%
% Dictionary of Variables
% Input information
             % w = distributed load
             % L = length of the member
%
% Output information
             % memberlocalFEF = fixed end forces in the local element directions
%%%%%%%%
% Take the load components along the local x', y', z' directions
     wx = w(1);
     wy = w(2);
     wz = w(3);
% Calculate the corresponding fixed end forces due to load in each local x', y', z'
directions
     FEF_X = [-wx*L/2;0;0;0;0;0; -wx*L/2;0;0;0;0;0];
     FEF_Y = [0; -wy*L/2;0;0;0; -wy*L^2/12; 0; -wy*L/2;0;0;0;wy*L^2/12];
     FEF_Z = [0;0;-wz*L/2;0;wz*L^2/12;0; 0;0;-wz*L/2;0;-wz*L^2/12;0];
% Sum up to get the total fixed end forces
    FEF = FEF_X + FEF_Y + FEF_Z;
    memberlocalFEF = FEF;
end
```