```
function [alpha,deltae] = trim(aircraft,h,v)
%TRIM Trim AOA and elevator deflection angles
   Inputs are:
   aircraft :a struct aircraft data in SI
             :a numeric array of 1xN aircraft altitude in m
             :a numeric array of 1xN aircraft velocity in m/s
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  Outputs are:
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 alpha :a numeric array of 1xN angle of attack in rad
  deltae
             :a numeric array of 1xN elevator deflection in rad
   arguments
       aircraft {mustBeA(aircraft, "struct") }
       h (1,:) {mustBeNumeric, mustBeReal}
       v (1,:) {mustBeNumeric, mustBeReal}
   end
   W = aircraft.W;
   S w = aircraft.S_w;
   S t = aircraft.S t;
   h cm = aircraft.h cm;
   h ac = aircraft.h ac;
   V H = aircraft.V H;
   Cl 0 = aircraft.Cl 0;
   Cl alpha = aircraft.Cl alpha;
   Cl deltae t = aircraft.Cl deltae t;
   Cm 0 = aircraft.Cm 0;
   Cm alpha = aircraft.Cm alpha;
    [\sim, \sim, \text{rho}] = \text{stdatm(h)};
   Cw = W./(0.5.*rho.*v.^2.*s w);
   Cl deltae = (S t./S w).*Cl deltae t;
   Cm deltae = Cl deltae.*(h cm-h ac)-Cl deltae t.*V H;
    trim cond = [Cl alpha,Cl deltae;Cm alpha,Cm deltae]\[Cw-Cl 0;-Cm 0];
   alpha = trim cond(1);
    deltae = trim cond(2);
end
```