```
function [v,a]= radar_config(t,r,A)

[~,n]= size(t);
v= zeros(n , 2);
a= zeros(n , 2);
h = t(2)-t(1);
for i= 2: n-1
    dot_r = (r(i+1)-r(i-1))/h;
    dot_r2 = (r(i+1)-2*r(i)+r(i-1))/h^2;

     dot_A = (A(i+1)-r(i-1))/h;
     dot_A2 = (A(i+1)-2*A(i)+A(i-1))/h^2;

     v(i,1) = dot_r;
     v(i,2)= r(i)*dot_A2;

     a(i,1)= dot_r2-r(i)*dot_A^2;
     a(i,2)=r(i)*dot_A2 + 2*dot_r*dot_A;
end
```

```
Not enough input arguments.

Error in radar_config (line 3)
[~,n]= size(t);
```

Published with MATLAB® R2021b

```
t= [200 202 204 206 208 210];
A= [0.75 0.72 0.70 0.68 0.67 0.66];
r= [5120 5370 5560 5800 6030 6240];
[vel,acc] = radar_config(t,r,A);
[n,~]= size(vel);
for i= 1:n
    if (i==1 || i==n)
        fprintf('velocity vector for time %g is NULL\n',t(i));
        fprintf('Acceleration vector for time %g is NULL\n',t(i));
        fprintf('************\n');
    else
        fprintf('velocity vector for time %g is %g er+ %g et\n',t(i),vel(i,1),vel(i,2));
        fprintf('Acceleration vector for time %g is %g er+ %g et\n',t(i),acc(i,1),vel(i,2));
        fprintf('********\n');
    end
end
```

```
Unrecognized function or variable 'l'.

Error in radar_config (line 8)
    dot_r = (r(i+l)-r(i-l))/h;

Error in FD_script (line 4)
[vel,acc] = radar_config(t,r,A);
```

Published with MATLAB® R2021b