ASSIGNMENT 1

(MATLAB CODE FOR PARACHUTE JUMPING PROBLRM)

t=0;

v=0;

i=1;

inter=input('Interval of discreate method=');

m=input('Enter value for m');

c=input('enter value for Cd');

for t=0:0.1:22

v=sqrt(9.81\*m/c)\*tanh(sqrt(9.81\*c/m)\*t);

A(i,1)=t;

A(i,2)=v;

i=i+1;

end

plot(A(:,1),A(:,2));

hold on

v=0;

t=0;

j=1;

for t=0:inter:22

B(j,1)=t

B(j,2)=v;

j=j+1;

v=v+(9.81-((c/m)\*v\*v))\*inter;

end

plot(B(:,1),B(:,2),'-o');

hold off

