

```

clc;
clear;
close all;
disp('Velocity of a falling parachutist is given by  $v=(g*m/c)(1-\exp(-(c/m)*t))$ ')
g=9.8; c=15; t=10; v=36;
m0=20;
m1=40;
n=4;
es=0.5*10^(2-n);
ea=100;
f=@(m) ((g*m/c)*(1-exp(-(c/m)*t)))-v;
m2_old=0;
while ea>es
m2= m1-(f(m1)* (m1-m0)/(f(m1)-f(m0))) ;
if abs(f(m2)-f(m2_old))<es
break;
end
m2_old=m2;
if f(m0)*f(m2) <0
m1=m2;
else
m0=m2;
continue
end
end
fprintf('the value of mass,m is %.4f',m2)

```

Velocity of a falling parachutist is given by  $v=(g*m/c)(1-\exp(-(c/m)*t))$   
the value of mass,m is 60.0376

