

```
commandwindow
clear
clc
m=3.5
g=9.8
v=0.5
format short g
for i=1:40
    iter(i+1)=i
    v(i+1)=sqrt(((m*g)+(0.02*v(i)))*(500+(log(v(i))^3)))/0.3)
    ea(i+1)=abs((v(i+1)-v(i))/v(i+1))*100
    if ea(i+1) <= 1E-11
        break
    end
end
table=[iter' v' ea']
```