ASSIGNMENT I

IBINAYE DANIEL .T.

M/SCI14/013 CIVIL ENGR

ENG 382 ENGINEERING MATHS IV

```
Command window
clear
clc
format short
v=0.5;
m=3.5;
g=9.81;
f=m*g;
v=sqrt(((((cft(0.02)*v))*(log(v))^3)+(10*v)+17150)/0.3);
for i=1:inf
    iter(i+1)=i;
v(i+1)=sqrt(((((cft(0.02)*v(i)))*(log(v(i)))^3)+(10*v(i))+17150)/0.3);
ea(i+1)=abs(((v(i+1)-v(i))*100));
if ea(i+1)<=0.0000000001
  break
end
end
table=table(iter',v',ea')
```

table = 20x3 table

Var 1	Var 2	Var 3
0	289.05	0
1	294.2	5514.7
2	302.65	844.85
3	303.81	124.7

ASSIGNMENT I

NAME: DANIEL I.

[illegible]/14/013 CIVIL ENGR

[illegible] 552 ENGINEERING MATHS IV

```
[illegible]
clear
clc
format short
v=0.5;
m=3.5;
g=9.81;
f=m*g;
v=sqrt((((((f+(0.02)*v))*(log(v))^3)+(10*v)+17150)/0.3);
for i=1:inf
  iter(i+1)=i;
v(i+1)=sqrt((((((f+(0.02)*v(i)))*(log(v(i)))^3)+(10*v(i))+17150)/0.3);
er(i+1)=abs(((v(i+1)-v(i))*100));
if er(i+1)<=0.0000000001
 break
end
end
table=table(iter',v',er')
```