NAME: OGAH JOSHUA IMHOAGENE

DEPARTMENT: COMPUTER ENGINEERING

MATRIC NO: 17/ENG02/063

commandwindow

clc

close all

V(1)=0.5;

m=3.5;

g=9.8;

F=m\*g;

F=((0.3\*V.^2)/500 + (log(V)).^3) - (0.02\*V);

for i=1:10

iter(i+1)=i;

V(i+1)= sqrt((1/0.3)\*(500+((log(V(i)))^3))\*(34.3+0.02\*V(i)));

error=abs((V(i+1)-V(i))/V(i+1))\*100;

if error<=1E-11

break

end

end

table(V')

ans =

21×1 table

Var1

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0.5+0i

239.05+0i

294.17+0i

302.61+0i

303.85+0i

304.04+0i

304.06+0i

304.07+0i

304.07+0i

304.07+0i

304.07+0i

304.07+0i

304.07+0i

304.07+0i

304.07+0i

304.07+0i

304.07+0i

304.07+0i

17.559-17.962i

17.575-17.984i

17.595-17.989i