**NAME: ODUSOLA OLASUBOMI OLAMILEKAN**

**MADRIC NUMBER: 17/ENG01/020**

**DEPARTMENT: CHEMICAL ENGINEERING**

**ENG382 ASSIGNMENT 5**

1. commandwindow
2. clearvars
3. clc
4. format short g
5. syms t kp td tp
6. v = kp\*(1-exp(-((t-td)/tp)))
7. mdata = xlsread('1587203818odevbesdata', 'data1');
8. t1 = mdata(:,1);
9. v = mdata(:,2);
10. V1 = round(mdata(900,2),1)
11. t0 = ones(length(v),1)
12. t = [t0 t1]
13. [mcoeff, mcoeffint, mresid, mresidint, manova] = regress (v,t);
14. %mcoeff
15. %rsquaredvalue = mcoeff(1)
16. mcoeff
17. manova
18. kp = V1
19. td = -mcoeff(1)
20. tp = mcoeff(2)
21. plot(t,v(:,1));
22. grid on
23. grid minor
24. Beta = nlinfit(V,t,vf,beta0)
25. Beta0 = [t0 t1 ]
26. Plot(t,Beta)

