***OJI UDOCHUKWU EBENEZER***

***19/ENG04/064***

***ELECTRICAL ENGINEERING***

***commandwindow***

***clearvars***

***clc***

***format short g***

***syms t kp td tp***

***v = kp\*(1-exp(-((t-td)/tp)))***

***mdata = xlsread('1587203818odevbesdata', 'data1');***

***t1 = mdata(:,1);***

***v = mdata(:,2);***

***V1 = round(mdata(900,2),1)***

***t0 = ones(length(v),1)***

***t = [t0 t1]***

***[mcoeff, mcoeffint, mresid, mresidint, manova] = regress (v,t);***

***%mcoeff***

***%rsquaredvalue = mcoeff(1)***

***mcoeff***

***manova***

***kp = V1***

***td = -mcoeff(1)***

***tp = mcoeff(2)***

***plot(t,v(:,1));***

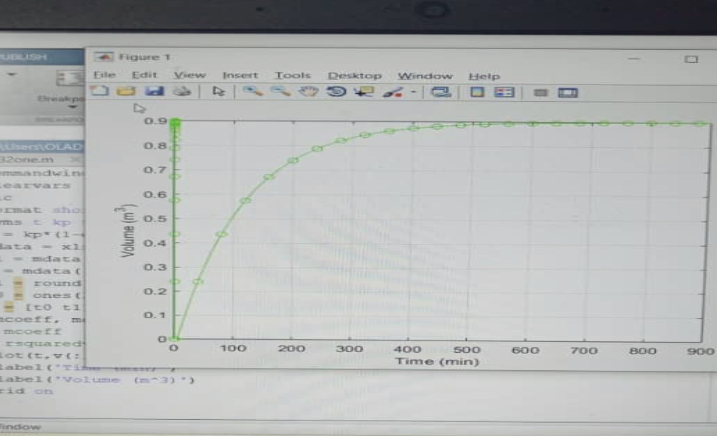
***grid on***

***grid minor***

***Beta = nlinfit(V,t,vf,beta0)***

***Beta0 = [t0 t1 ]***

***Plot(t,Beta)***

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***Command window***

***Clear***

***Clc***

***Format store g***

***Syms t kp td tp***

***Mdata =xls read(‘1587203818odevbe sdata’, ‘data1’);***

***T1=mdata(:,1);***

***V=mdata(:,2);***

***To=ones(length(v), 1)***

***T=(To T1)***

***Y=@(kp,td,tp)(-((exp(T1)-exp(td))/exp(tp)));***

***Initials=(0.1,0.1,0.1)***

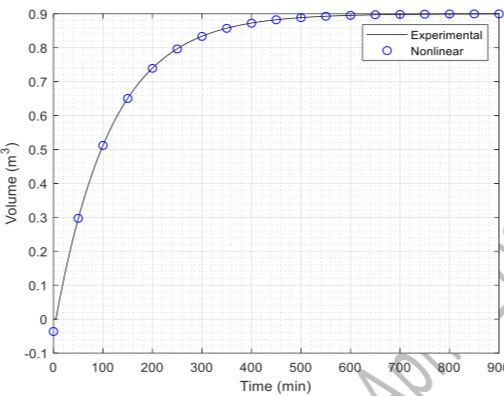
***%(mcoeff, mcoeffint, mresid, mresidint, manova)=nlinfit (v,t,y,initials)***

***%mcoeff***

***Plot(t,v)***

***Grid on***

***Grid minor***

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