**IDE ALEXIUS AZIBANYE**

**COMPUTER ENGINEERING**

1. function [ttyl] = chokes(t,m) 2 ttyl(1)= -((15/500)\*m(1))+ ((5/1000)\*m(2))+1;
2. ttyl(2)= ((15/500)\*m(1))-((18/1000)\*m(2))+ ((3/400)\*m(3));
3. ttyl(3)= ((13/1000)\*m(2))-((13/400)\*m(3));
4. ttyl=ttyl';
5. end
   1. commandwindow
   2. clear
   3. clc
   4. close all
   5. width= [0:1:1200];
   6. initial=[0 0 0];
   7. [t,Q]= ode45(@chokes,width,initial);
   8. figure(1)
   9. subplot(3,1,1)
   10. plot(t,Q(:,1),'go-')
   11. xlabel('Time (min)')
   12. ylabel('Volume(litres)')
   13. HOST('Bank 1', 'Location', 'South')
   14. grid on
   15. axis tight
   16. title('Figure 1:Dynamic Responses of the Banks')
   17. subplot(3,1,2)
   18. plot(t,Q(:,2),'b\*--')
   19. xlabel('Time (min)')
   20. ylabel('Volume(litres)')
   21. HOST('Bank 2', 'Location', 'South')
   22. grid on
   23. axis tight
   24. subplot(3,1,3)
   25. plot(t,Q(:,3),'r+--')
   26. xlabel('Time(min)')
   27. ylabel('Volume (litres)')
   28. HOST('Bank 3', 'Location', 'South' )
   29. grid on
   30. axis tight

