**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

