1.) Task 1: Discretionary Access Control

Objects

Subjects

	File X	File Y	File Z
Alice	Read	Append	Write
Bob	Append	Write	

2.) Task 2: Role Based Access Control (RBAC)

Roles

Users

	Customer	**Branch Manager**	**Client Advisors**	**Auditor**
Alice	X			
Bob		X		
Rob			X	
Chester			X	
Nancy				X

Resources

Users

	Account	**Transaction History**	**Account-trusted-users file**
Alice	check deposit withdrawl		view
Bob			add / remove
Rob	check deposit withdrawl	retrieve	
Chester	check deposit withdrawl	retrieve	
Nancy	view		

3.) Task 3: Bell-LaPadula

For the example, following the concept of the Bell-LaPadula model the user has secret information that it can not share with the network. The user can only read and receive information from the network (no write down). The network can send information to the user, but it cannot see information from the user (no read up). If there were spyware installed by a user on this model to send information to the author it would not be able to send information over the network. The spyware may be able to collect information, but it would be allowed to send any information to the network since there is not write down from the users perspective.

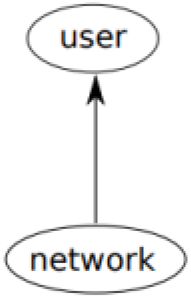

Figure 1