Tutorial 2

Aim

To exemplify
- security mechanisms and their effect on usability and functionality
- attack methods

Questions

1. A specific security mechanism protects against a certain type of threat. Most antivirus software has an explicit list of malware fingerprint (binary code pattern) that it can identify and neutralise. What type of malware can be identified in this way, and what type of malware may remain hidden? Discuss.

2. Security is often said to interfere with usability and in some cases with functionality as well. Explain how this applies to the case when you use your Windows computer account at RMIT.

3. A common attack method is social engineering. Imagine a scenario where someone wants to obtain your RMIT username and password in this way.
   - (a) Describe the scenario.
   - (b) Identify the components in this attack, such as vulnerability, exploit, threat agent and threat
   - (c) Devise some methods to thwart such an attack.