

FIT9137 Applied

Week 6

Topics:

- Protocol Layering

Covered Learning Outcomes:

- Examine networks using the underlying fundamental theories, models, and protocols for data transmission.

Instructions:

- One of the main purposes of an applied session is to build the learning community, create connections and include the learners. The other goal is to give and receive feedback from your peers and or your tutors.
- Form groups of 2 students (peers) to work through the exercises. If met a problem, try to solve it by asking direct questions to your peer. If the issue was not solved within peers, ask your tutor. If did not get a chance to solve the problem during your applied session with your peer or tutor, jump into one of many consultation hours and ask any of the tutors to help you. Please visit the “Teaching Team and Unit Resources” tile in the FIT9137 Moodle site.

Understanding Layered Architecture

1. Explain the following concepts in the context of data communication and computer networks:
 - a protocol
 - protocol layering
2. What are the benefits of a layered architecture?
3. Is there any disadvantage to a layered architecture?
4. What is a logical connection?
5. What is “addressing” in a layered architecture?
6. What is Encapsulation and Decapsulation in a layered architecture?
7. What is Multiplexing and Demultiplexing in a layered architecture?