


Week2 /Day 1

Open System Interconnection Model (Osi Model)

- ❖ **Application:** virtual terminal user interact with for example using https for web surfing and smtp for emailing
- ❖ **Presentation:** translate between application and network, encryption and decryption of data happen here.
- ❖ **Session** establish manage or terminate application between local application (web browser) and remote application (youtube)
- ❖ **Transport:** segment and reassemble data for flow connection and connectionless communication between host (tcp/udp)
- ❖ **Network** provide connectivity between end host though logical address. routing and path determination
- ❖ **Data link** provide node to node connectivity (computer to switch, switch to router, router to router)
- ❖ **Physical:** device transmission such a optical or copper cable or radio use to transfer data known as bit

Encapsulation and the Dencapsulation of Open System Interconnection Model



| Data unit | Layers |
|-----------|--------------|
| data | Application |
| data | Presentation |
| data | Session |
| Segment | Transport |
| packet | Network |
| frame | Data link |
| bit | Physical |