

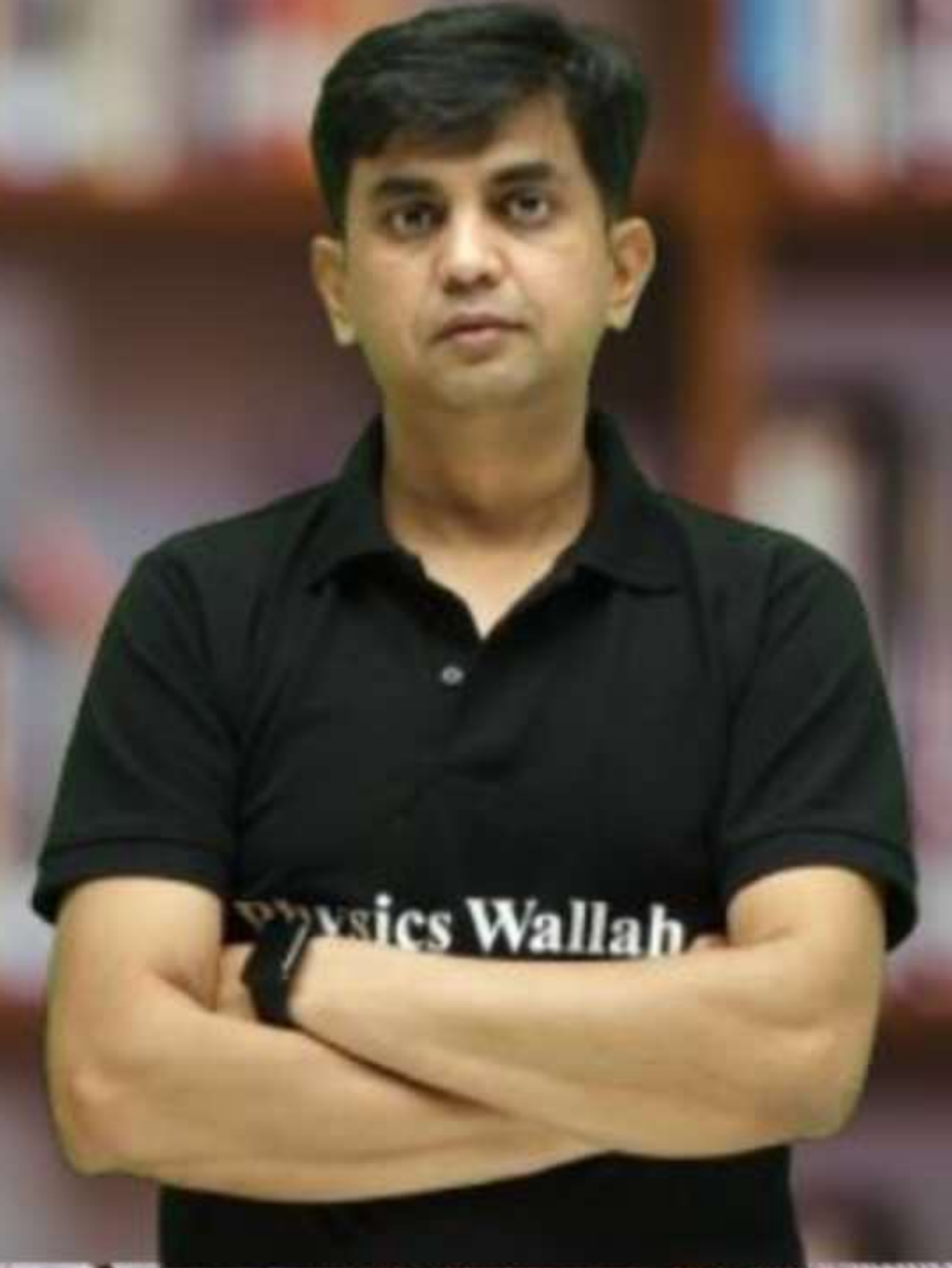
# CS & IT ENGINEERING



## Computer Network

### Introduction

**Lecture No. - 01**



**By - Abhishek Sir**



# Topics to be Covered



**Topic**

**Concepts of Layering**

**Topic**

**OSI & TCP/IP Model**

**Topic**

**Application Layer**

**Topic**

**Two Process Communication**



## ABOUT ME

Hello, I'm **Abhishek**

- GATE CS AIR - 96
- M.Tech (CS) - IIT Kharagpur
- 12 years of GATE CS teaching experience

Telegram Link : [https://t.me/abhisheksirCS\\_PW](https://t.me/abhisheksirCS_PW)



## Topic : Reference



→ Request for Comments (RFC)  
by Internet Engineering Task Force (IETF)



## Topic : Syllabus



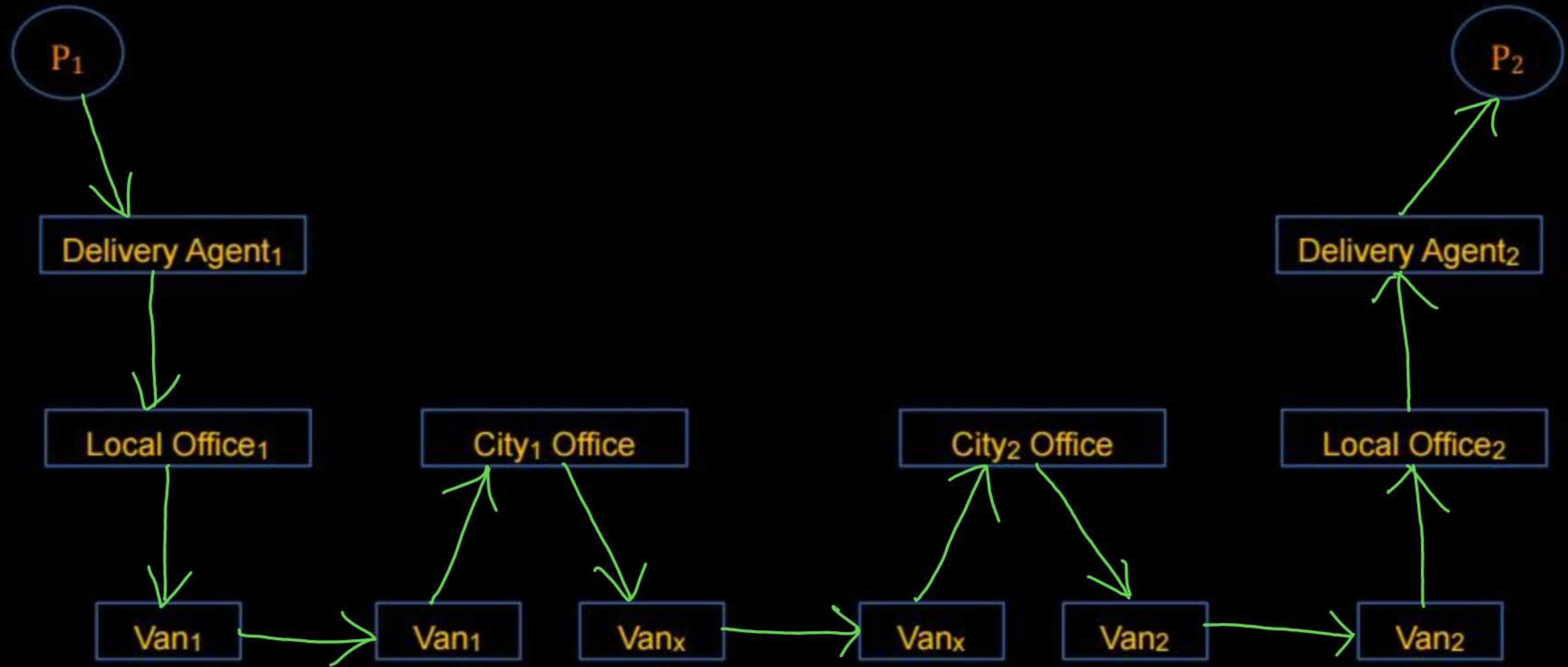
Concept of layering : OSI and TCP/IP Protocol Stacks;



## Topic : Layered Architecture



→ Each lower-layer provides service to its higher layers





## Topic : OSI Model



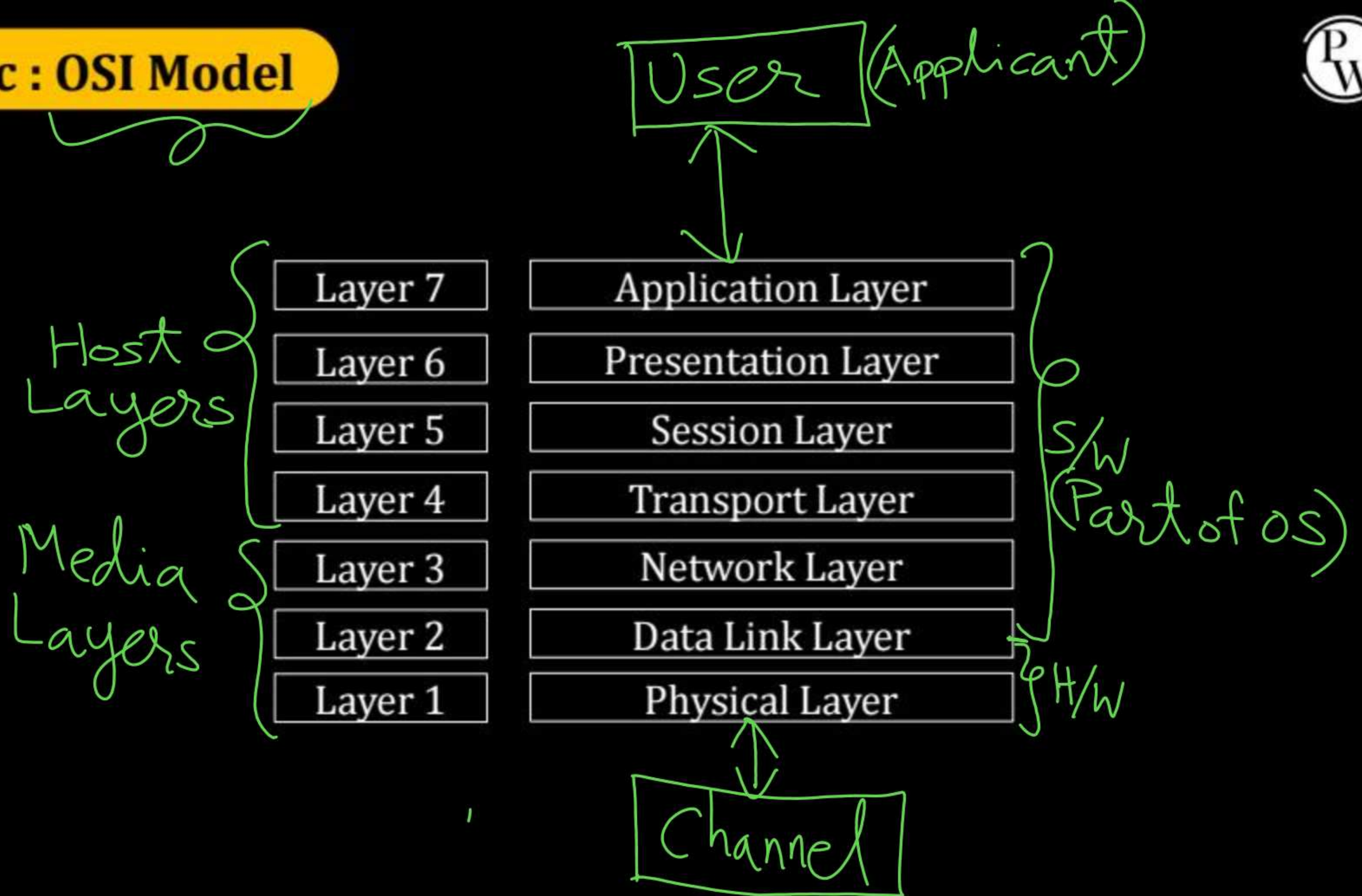
ISO

- Open System Interconnection
- Conceptual Model
- Seven layer architecture





# Topic : OSI Model





## Topic : TCP/IP Model



⇒ Conceptual Model

Layer 5	Application Layer	
Layer 4	Transport Layer	⇒ TCP & UDP
Layer 3	Network Layer	⇒ Internet
Layer 2	Data Link Layer	} ⇒ Network Access
Layer 1	Physical Layer	



## Topic : Application Layer



- Network application program (network process)  
[e.g. Browser]
- **Process** : Program in execution  
[Process id (pid) managed by OS]





## 2 mins Summary



Topic

Concepts of Layering

Topic

OSI & TCP/IP Model

Topic

Application Layer

Topic

~~Two Process Communication~~





**THANK - YOU**