

# CN lab

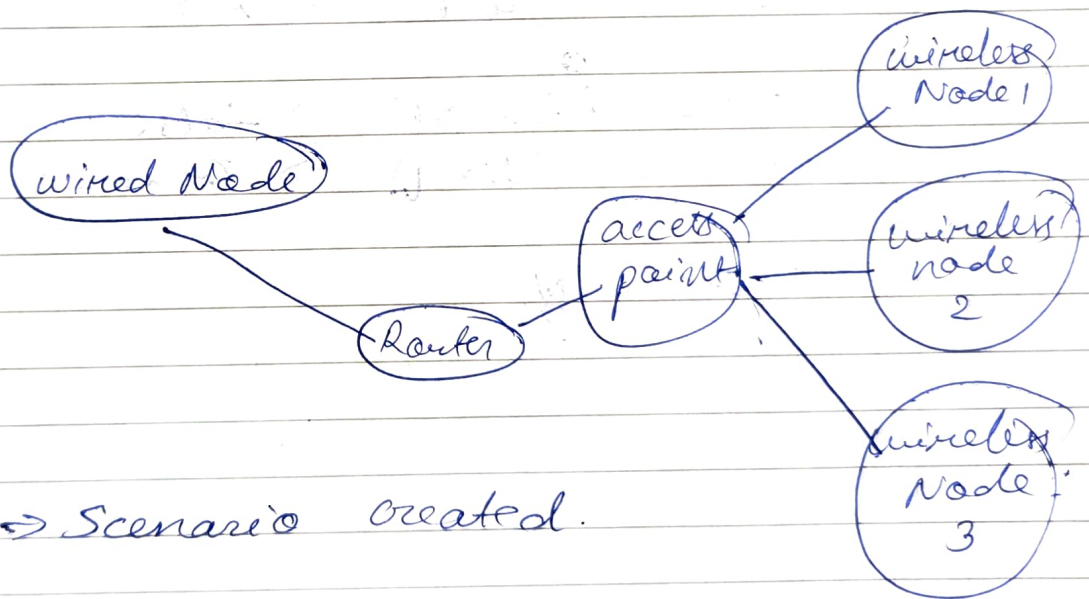
## OSPF (open shortest path first)

Date: \_\_\_\_\_

1. Choose a network.  
(internetworks - Base).

2. Create a scenario.  
(1 wired Node and 3 wireless Node)

- Take 1 router.
- Take 1 access point.
- Connect using wires.



⇒ Scenario created.

(ii) Set traffic

- Select CBR (constant Bitrate).  
connect wired to wireless.  
(all 3)

flow of  
data at  
constant  
rate

- select video.  
wireless to wired.  
(all 3) → packet assigned.

### ~~(i)~~ configure reports.

- Click on wired Node.
- select General.
- set Wireshark capture to online.
- Select on application layer.
- Set Open flow enable to false.
- Do the same steps for wireless nodes as well.

### (iii) Configure reports.

- Enable packet trace
- Click on plots/charts.
- select Throughput VS time.
- latency vs time.
- throughput vs time.
- OSPF log.
- TCP log.
- Path Loss vs time.

### (iv) Show/hide info.

- Enable → Device IP
- Interface ID
- Everything

→ Go to create scenario

→ click run simulation.

→ Select 20 seconds as simulation time.

→ Click on Record Packet animation.

→ Now click on play (in green Button)

→ Minimise the graph simulation.

→ Click throughput vs time in plot section.