

# Vidyavardhini's College of Engineering and Technology

## Department of Artificial Intelligence & Data Science

#### **Experiment 7**

**Aim:** To design a network with routers, hosts and simulate dynamic routing algorithm using Cisco packet tracer.

#### Theory:

Dynamic routing is all about configuring a network using dynamic routing protocols. Dynamic Routing Protocol is divided in to two main parts.

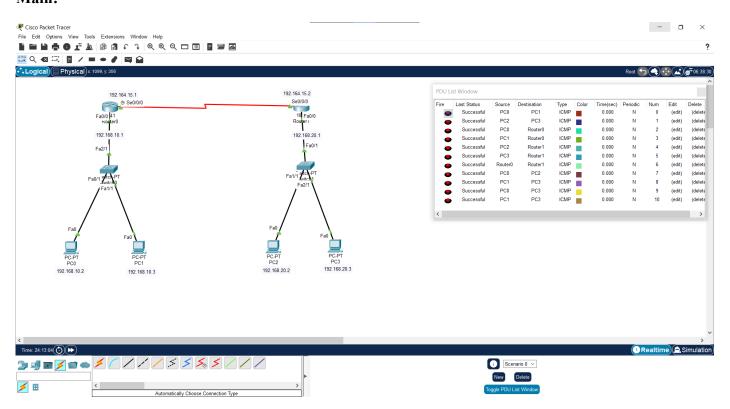
- 1.Interior Gateway Protocol
- 2. Exterior Gateway Protocol

Interior Gateway Protocol is an autonomous system and handled by only one admin. this protocol is also divide into two parts,

- 1. Distant Vector Protocols(Bellman-Ford Algorithm) distance is measured by 'hop count' and use for simple networks
- 2. Link State Protocol(Dijkstra Algorithm) this uses some other information like neighbour router info and this is best for complex network designs

#### **Output:**

#### Main:



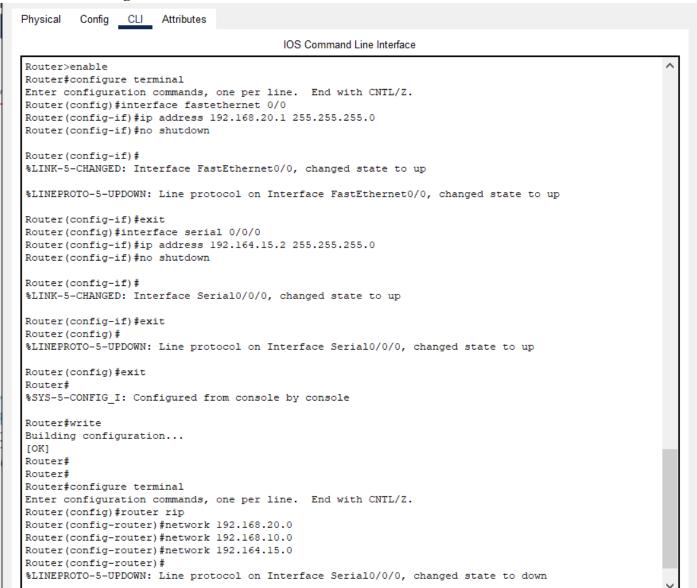
CSL501: Web Computing and Network Lab



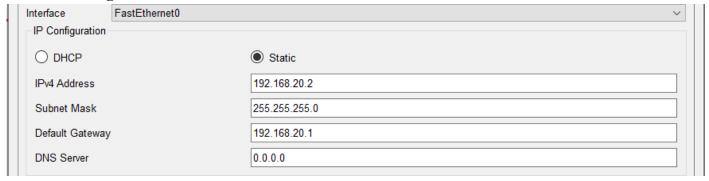
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#### **Router CLI Configuration:**



#### **PC IPv4 Configuration:**



**Conclusion:** 

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