



Computer Networks Project

Network Simulation

Submitted by: *Mir Tasleem & Shahid Farooq*

Submitted to: *Dr. Iqra Altaf Gillani*

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Report

Programming Language: Python

Physical Layer:

We created simulation of hub and a dedicated connection between two devices.

We used classes to represent connecting devices and end devices.

We implemented star topology using a hub.

Data Link Layer:

Implemented Switch and Bridge as layer 2 devices.

Implemented CRC as an Error Control Protocol.

Implemented CSMA-CD as the access control protocol.

Resources used/ References:

Github.

Geeeks For Geeks

Medium.

Gemini/Chat GPT.