**Computer Communication & Networks**

**SDN with RYU controller**

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1. RYU controller

A screen shot of a social media post

Description automatically generated

A picture containing outdoor, building

Description automatically generated

A screenshot of a cell phone screen with text

Description automatically generated

After disconnecting RYU:

A picture containing outdoor

Description automatically generated

A screenshot of a cell phone

Description automatically generated

Pingall command:

A screenshot of a cell phone

Description automatically generated

2. Network topology with hosts links and switches

A close up of a sign

Description automatically generated

3. Bandwidth using iperf

A screenshot of a computer

Description automatically generated

A screenshot of a cell phone

Description automatically generated

The python code about gives the below output

A screenshot of text

Description automatically generated

4. Printing Network Topology with Link Costs

A screenshot of a cell phone

Description automatically generated

A screenshot of a cell phone

Description automatically generated