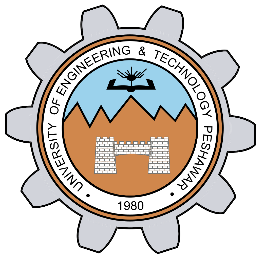
**INTRODUCTION TO NETWORKING**

ASSIGNMENT **03**



SPRING 2025

**DATA COMMUNICATION AND COMPUTER NETWORKS**

SUBMITTED BY:

**MUHAMMAD MUSA**

REGISTRATION NO:

**22PWCSE2157**

SECTION: **C**

SUBMITTED TO:

**ENGR. IHSAN UL HAQ**

Dated: **23thApril, 2025**

DEPARTMENT OF COMPUTER SYSTEMS ENGINEERING

UNIVERSITY OF ENGINEERING AND TECHNOLOGY, PESHAWAR

CSE 303: Data Communication and Computer Networks

Graded Assignment No 03

Assignment Date: 19th May,2025

Strict Deadline 23th April 2025 (During Class, After the class Assignment will not be accepted)

1. Click the following link, read and understand the material. Answer all questions given in the link and submit https://tryhackme.com/room/networkingconcepts

2. Click and watch the vedio link. Moreover, click the following link, read and understand. Answer all questions given in the link and submit i) https://www.youtube.com/watch?v=42u\_2e6eNF4&t=9s

ii) <https://tryhackme.com/room/whatisnetworking>

* **Objective:**  
  The primary objective of this is to understand the concept of networking, its components, types, and the role it plays in enabling communication and data sharing between devices.
* **Introduction:**  
  Networking refers to the practice of connecting multiple computing devices, such as computers, servers, printers, or mobile devices, to enable communication and the sharing of resources. Networks facilitate the transfer of data and allow devices to communicate with each other through different mediums like cables, wireless signals, or fiber optics. There are several types of networks, ranging from small local area networks (LANs) to large wide area networks (WANs) and the internet.
* **Click the following link, read and understand the material. Answer all questions given in the link and submit** [**https://tryhackme.com/room/networkingconcepts**](https://tryhackme.com/room/networkingconcepts)

1. What is the key term for devices that are connected together?

Ans: A common key term is a network.

2. Who invented the World Wide Web?

Ans: Tim Berners-Lee

3. What does the term "IP" stand for?

Ans: Internet Protocol

4. What is each section of an IP address called?

Ans: Octet

5. How many sections (in digits) does an IPv4 address have?

Ans: Four

6. What does the term "MAC" stand for?

Ans: Media Access Control

7. Deploy the interactive lab using the "View Site" button and spoof your MAC address to access the site. What is the flag?

Ans: This question requires interacting with an external site ("tryhackme.com"), which I cannot do. You'll need to complete that lab to find the flag.

8. What protocol does ping use?

Ans: ICMP (Internet Control Message Protocol)

9. What is the syntax to ping the 10.10.10.10 site?

Ans: ping 10.10.10.10

10. What flag do you get when you ping 8.8.8.8?

Ans: Ping doesn't return a "flag" in the traditional sense. It returns responses indicating whether the host is reachable. There is no flag.