

Assignment 03 CCN Theory



Spring 2025

Submitted by: **Mohsin Sajjad**

Registration No: **22pwsce2149**

Class Section: **A**

“On my honor, as student of University of Engineering and Technology, I have neither given nor received unauthorized assistance on this academic work.”

A handwritten signature in black ink that reads "Mohsin Sajjad".

Student Signature: _____

Submitted to:

Engr. Ihsan ul haq

Month Day, Year (22 05, 2025)

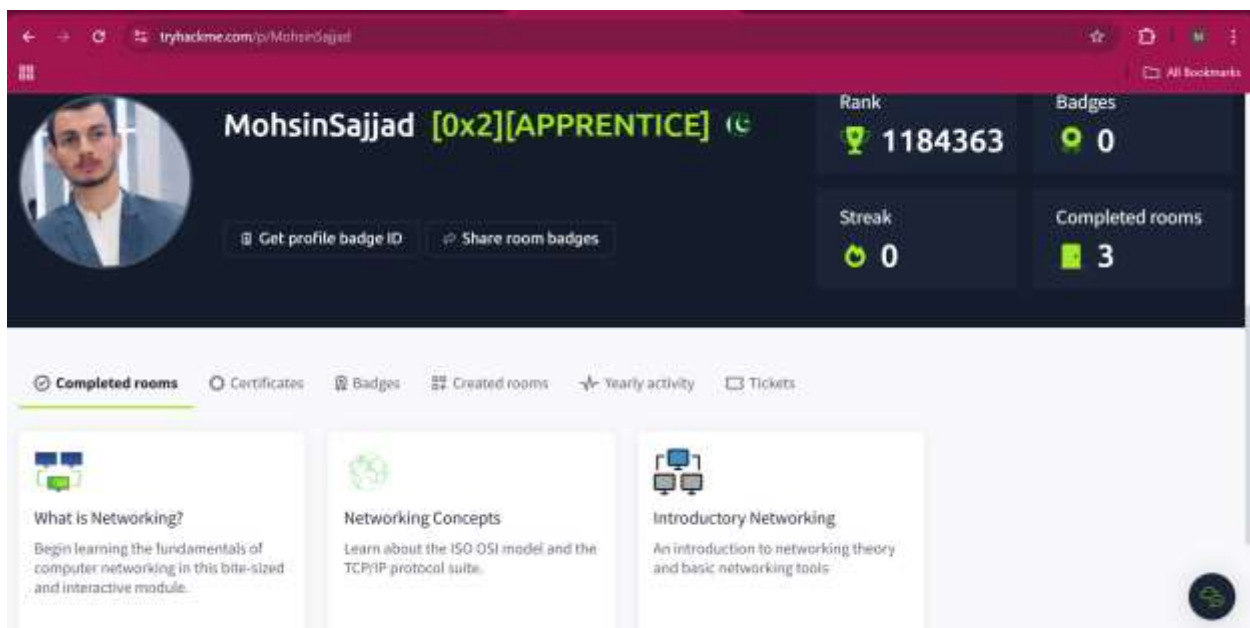
Department of Computer Systems Engineering
University of Engineering and Technology, Peshawar

Assignment Date: 21st May, 2025

Strict Deadline 26th May 2025 (2 pm, Location CR: 6), After the Deadline None of the Assignment will be accepted.

Note: visit the following site: <https://tryhackme.com/room/introtonetworking> After completing the above tasks, answer the following questions and submit before the deadline preferably during the Class.

Note: Marking will be based on the Correct Answers expected on the site ONLY.



1. Which layer would choose to send data over TCP or UDP? Answer with the number of the layer: e.g. if the answer is "the application layer", then you should enter "7".

Answer:

4

2. Which layer checks received information to make sure that it hasn't been corrupted? Answer with the number of the layer: e.g. if the answer is "the application layer", then you would enter "7".

Answer:

2

3. In which layer would data be formatted in preparation for transmission? Answer with the number of the layer: e.g. if the answer is "the application layer", then you would enter "7".

Answer:

2

4. Which layer transmits and receives data? Answer with the number of the layer: e.g. if the answer is "the application layer", then you would enter "7".

Answer:

1

5. Which layer encrypts, compresses, or otherwise transforms the initial data to give it a standardized format? Answer with the number of the layer: e.g. if the answer is "the application layer", then you would enter "7".

Answer:

6

6. Which layer tracks communication between the host and receiving computers? Answer with the number of the layer: e.g. if the answer is "the application layer", then you would enter "7".

Answer:

5

7. Which layer handles logical addressing? Answer with the number of the layer: e.g. if the answer is "the application layer", then you would enter "7".

Answer:

3

8. How would you refer to data at layer 2 of the encapsulation process (with the OSI model)?

Answer:

Frames

9. How would you refer to data at layer 4 of the encapsulation process (with the OSI model), if the UDP protocol has been selected?

Answer:

Packet

10. Which is the only layer of the OSI model to add a *trailer* during encapsulation?

Answer:

Data-link

11. Which layer of the TCP/IP model covers the functionality of the Transport layer of the OSI model **(Full Name)**?

Answer:

Tansport

12. Which layer of the TCP/IP model covers the functionality of the Session layer of the OSI model **(Full Name)**?

Answer:

Application

13. What kind of protocol is TCP?

Answer:

Connection-based

14. What switch in ping lets you change the interval of sent ping requests?

Answer:

-i

15. What switch would you use to specify an interface when using Traceroute?

Answer:

-i

16. Use whois and find the registrant postal code for facebook.com?

Answer:

94025