

### Computer Science II

(UOMU013046)



#### Lab No. 1

#### Lab Introduction: Identifying IP and MAC Addresses

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#### Introduction

**In this lab,** we will learn how to find the IP address and MAC address of a computer using simple commands. The IP address is a unique identifier used for communication over networks, while the MAC address is a hardware address assigned to a device's network interface.

#### **IPv4 Address Format**



### Find the Computer's IP and MAC Address using CMD or PowerShell:

## Open Command Prompt (CMD) or PowerShell. Type the following command and press Enter:



## This will display the **IP address** (IPv4 and IPv6) and the **MAC address**.

#### Find the IP Address of a Website using nslookup:

#### In the command prompt, type:

### nslookup <u>www.google.com</u>

This will return the IP address of Google's servers.

#### **Trace the Route to a Website using tracert:**

#### **Type the following command and press Enter:**

### tracert <u>www.google.com</u>

This will show the path packets take to reach the website.

# Thank You