Misconceptions

Module-1	
Misconception 1.	Computer networks primarily include the
	interconnection of several computing devices.
Correct Explanation	The act of establishing connections between devices is a basic aspect of networking. However, computer networks have a broader scope that includes protocols, data transfer mechanisms, addressing schemes, and the
	facilitation of dependable communication, among several other elements.
Misconception 2.	LANs are always very small and confined to a single room or building.
Correct Explanation	Local Area Networks (LANs) are often confined to a limited geographical region, however they have the capability to extend over many buildings within a campus or a large office complex.
Misconception 3.	IP addresses and MAC addresses are equivalent.

Correct Explanation	IP addresses are a kind of logical addresses that have the ability to alter depending on the network to which a device is connected. On the other hand, MAC addresses are physical addresses that are hardcoded and distinct foreach network interface card.
	Toreach hetwork interface card.
Misconception 4.	The transport layer only focuses on the transmission
	of data.
Correct Explanation	The transport layer is responsible for managing end-to-
	end communication, performing error checking,
	sequencing data, implementing flow control mechanisms,
	and other related tasks to guarantee the reliable
	transmission andreception of data.
Misconception 5.	Socket programming mostly caters to the
	development of intricate and expansive applications.
Correct Explanation	Socket programming is an essential technique used in
	network communication, serving as a fundamental tool
	for many tasks ranging from establishing basic server-
	client interactions to implementing intricate applications.