

Third Year B.Tech CSE Sem-5

Programming Lab-3

Practical No-1

PRN: 2019BTECS00064

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To Describe Components of a Network

Problem Statement 1:

Study and describe the following components in your words

1] Client:

When we talk the word client, it means to talk of a person or an organization using a particular service. Similarly in the digital world a client is a Computer (Host) which is capable of receiving information or using a particular service from the service provider (services).

2] Server:

When we talk about word server, it means a person or medium that serves something similarly. In this digital world a video server is a remote computer which provides information (data) to access to particular services.

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### 3] Communication: Sign: Badam

It provides transmission of verbal and non-verbal messages. It consists of a sender, a receiver and channel of communication. In the process of transmitting messages, the clarity of the message may be distorted by what is often referred to as barriers.

### 4] Protocols

A protocol is a set of rules and guidelines for communicating data. Rules are defined for each step and process during communication between two or more computers. Networks have to follow these rules to successfully transmit data.

### 5] Ports:

Port is a communication end point. At the software level within an OS, a port is a logical construct that identifies a specific process / a type of n/w service. A port is identified for combination by a 16 bit unsigned number known as port number. The most common transport of protocols that use port numbers are the Transmission Control Protocol (TCP) and User Datagram Protocol (UDP).

### 6] Network

A network consists of two or more computers that are linked in order to share resources (such as printers and CD's), exchange files or allow electronic communications. The computers on a network may be linked through cables, network telephone lines, microwave satellites.



or infrared light beams

Two very common networks are

i] Local Area Network (LAN)

ii] Wide Area Network (WAN)