Assignment -1.

I switch of minimum four computers.

Puoseem statement:

- A.) Setup a wined can utily layer 2 switch and then

 2. P roitch of minimum some computerer. It includes

 preparation of cable, testing of cable utility whe

 terrere, configuration machine utility 20 addresses, testing

 aring prince utility and demonstructe the CZNG

 packets captured treaces uppg winethousk Packet Analyzere
- 3) Extend the same assignment gove wheeless unly access

Software Handwarer requirements:

wireshark tool

concept Related theory!

Typer of LAN:

A local area network (LAN) is a computer network that interconnects computered within a similed area such as a residence, school, lasoundary, unineventy computer or office building and has its network equipment and interconnects locally managed.

tuansmission technologies in use.

Ethernet LAN:

themet is the most popular physical layer in technology in ute today. It defines the number of conductors that are required gave a connection, A standard etherenet network can treatmit data at a mate upto 10 negation per record (10 NSps). Others LAW types include to ken king, Feest perhernet, aigasit Ethernet, (0 ayan) others, Fisca pirtuisured bata Interface (FDDI).

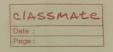
Fast Etheunet:

how been crashished from Etherenet networks that need higher treansmittion exceeds. This standard receives the Etherenet speed winit from 10 Msps to 100 Msps with only minimal changes to the enisting outle or the chiefing

signait Ethernet:

enigabit Ethernet was developed to meet the need goe Baster communication retrooped with with applications such as multimedia and voice oner TP (VoII). It is defined in the TFFF 802.3 standard and is currently used as an enterpuise backbone

nost recent of the Erneunet of exhering a exherinet



it to times gaster than disabit ethernet

I.P. switching:

commonly referred to as switching is a routing technique which recutes data packets garrere than treaditional worting by using rayors switches.

switches is performed by implementing layers switches. which employ Application specific integrated circuit (ASZC) housedware and treansquering via Arynchronous Treansque Mode (ATM) switches.

cable terring:

cable text instruments are derigned with a variety of focussed prootunes fore pareticular field tarks. They vary in price, performance and apprication. Depending on the tark, the field text instrument performs, it can be classified into one of three hierarchial quoups:

- is certification
- 21) quarfrants
- 3.) veurfication.

Witterhaux Packet Analyzere Tool:

wheerhootk, a network analytic tool bournally known as Erneveal, captures packets in second time and displays them in human weathouse germat. wheerhough includes gilters, colors coding and other protructs that set you dig deepere into network treaffic and inspect prodicioual packets.

witeerhauk who colours to identify the types of treaffic at a glance by default, green is TCP treaffic, dank blue is one treaffic, dight blue is upp treaffic and black identifies TCP packets with publicar, for example, they could have been sent out of order.

Steps gove setting up LAW:

crimping of etheunet caste.

topology retwork to connect 2 different
types of components eg. PC to switch or PC
to reputer.

topology network to connect 2 omilar types of components. if. PC to PC or nower

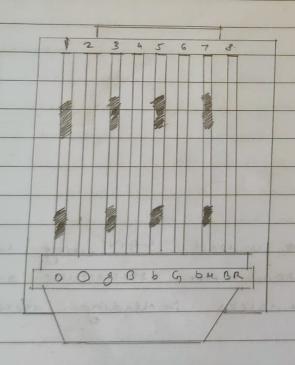
Classmate

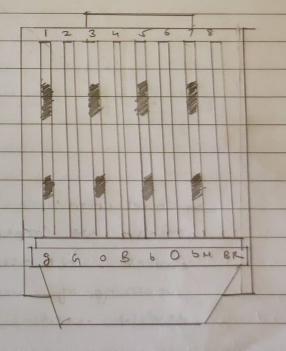
to nouter . Many

connect the cables to switch and greon switch to the machines, thus, it goums a crace topology.

Assign 20 address to each machine in the network · pry from one machine to another machine in

nessage is displayed.





Streaight - Through

cross-over

