## Bractical - 3

Aim:
To ostudy the tocket Toward dock installation and user interface.

of to widerstand environment of CISCO PACKET TRACER to design simple inetwork

introduction:

1) It allows you to model complex system without the need for declicated equipment.

2) It helps you to proctice your network configuration and trouble shooting will via computer on an anchroid on ion based mobile

3) It is available for both the Linux and windows desktop environment.

4) Brotocoles in packet treater are coded to work and behave in the some way as they would on real hardware.

Analyse the behowiour of network devices using cisco packed traver. simulator.

1) From the network component box, click and down - and - down the below components: a) 4 Greneric Pas and one HUB

1) 4 Prenouse Rus and one souistich

2) click on connections:

a) click on copper straight—through eable.

b) select one of the PC and connect it

b) HOR using the cable. The link LED shoulded

glow green indicating the link is up.

3 Pcs 6 the connect tremaining Dimilarly connect 4 Rs to the whitch wought - through codole. switch using c) wimileouty Copper were to dear small new ins Pc-PT P02 helps thou to writer configurate on and described acting biordina no no retirons HUB-PT hubo Hod . aldolinuo a galdage acoupoles PC-PT sworld be Political design drander ont Switcho

3) click on the Pas connected to hub, go to the desktop tab, Elick on IP configuration, and enter an IP address and wwent mask, Here the default gateway and Dris worker information is not needed as there are only two and devices in the network.

click on the PDU Comestage icon) from the common tool bon. a) Downg and drop it on one of Pc connected.

to the HOB.

- 4) observe the flow of PDU from source PC to destination PC by sectoring the treattime mode of wimulation.

  5) Repeat step #3 to wtep #5 for the PCs connected to sowitch.

  6) observe how HUB and switch are forwarding the PDU and write your observation and the PDU and write your observation and the PDU and the pehavious of switch and HUB. HUR

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PCO	Pc1
18 configuration	IP configuration
- IP configuration	- 112 confuguration
OTHER @ SELIC	. OTHER @ Static
1P address 10.1.1.1	IP address 10.1.1.2
owbrol mask 255.0.8.0	subred mack 255.0.0.0
default galaciery	defaut galency
DN2 DOMON	INS godency
	and June 2

Student observation: a) behaviour of writch and HUB

ans: HUB: a basic networking device that broadcast incomming dada pockets to ay devices connecting to its parts.

They operate on a physical layer of osi model and don't have reapabability to disting with between devices Chifferent) on litter traffic.

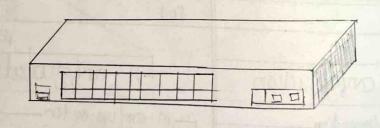
collisions: when a collision happense the network performance is degraded.

Switch: It operates on a resta Cink layer of the OSI model

. It maintains a MAC adobers to the corresponding maps both MAC adobers to the corresponding post.

This significantly oreduces the chances of collibers and improves overall network throughput.

b) topology diagram:



A hub openwords dotte packets to each connected computer - Switch can deformine. The destination of each dotter pucket god selectivity broate if to the computer that orequire it.

Repult: the istudy of Packet tracer interface overview is studied. Packet strange toll Thus and July 1900 Plan and design ton apportate helicale depotographing into account network House committee in Authornpolary 1.1 On Davited with 12.8 the contrate which is sufficient for networks of those, when and 4 ethernet coloes. connect your computers and methods word when a estimate paper, which is not primple as purplying one and of the otherset of the into your compositor and other end into your network whitch. Stop 2: Assign 19 outstrons to your Pas. 1) and on to the episte computer as administration on as owner. a) chek netwark and theired connections. projection & rolling Internet Debook & carbon properties a collect was the following is ad opical and assign isoderics.