Experiment-9

Data link layer traffic Simulation using Packet tracer analysis of CSMA /CD & CSMA / CA

Aim: To implement data link layer traffic simulation using packet Tracer Analysis of CSMA/CD

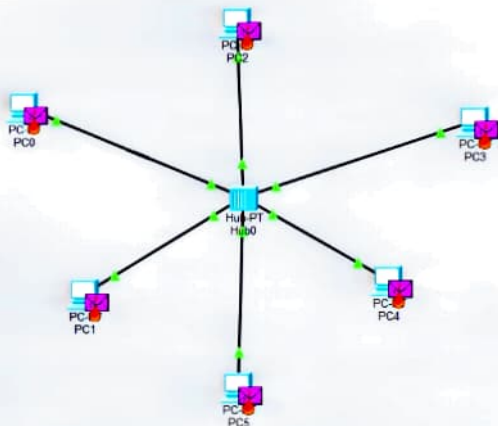**Software**: Packet Tracer / End devices, Switches, Connectors

Requirement
+ End device   * switch / Hub   + cable

Procedure

1. Click on end devices, select generic PC's drag drop it on the window, click on switch drag and drop it on window.

2. Connect all end devices to switch, and set If address for all end devices.

3. Set IP address to Host A in static mode. Simulate set IP address for Host B & HostC

4. Now display the packet transmission in simulation mode.

Result: Thus data link layer traffic Simulation using packet Tracer analysis of CSMA /CD & CSMA / CA is successful.

PC2

PC0

PC3

Hub-PT
Hub0

PC1

PC4

PC5

Simulation Panel

Event List

Vis.	Time(sec)	Last Device
	0.000	--
	0.000	--
	0.001	PC1
	0.001	PC0
Visible	0.002	Hub0
Visible	0.002	Hub0
Visible	0.002	Hub0
Visible	0.002	Hub0
Visible	0.002	Hub0
Visible	0.002	Hub0

Reset Simulation   ☑ Constant Delay   Captured to: 0.002 s

Play Controls

Event List Filters - Visible Events
ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IEC, IPSec, ISAKMP, IoT, IoT TCP, LACP, LLDP, MODBUS, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoED, PTP, Profinet, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters   Show All/None

00 08 28.238 ⊙ PLAY CONTROLS

Scenario 0   Fire | Last Status | Source | Destination | Type | Color | Time(sec) | Periodic | Num | Edit | Delete

Event List   Realtime   Simulation