Experiment-3 To study the Packet tracer tool Installation and User Interface Onerview Cisco Packet Tracar - Simulator Crinculation and modelling tool) - simulates refuerte devices and its environment. Why 2. To practice network configuration and + troubleshooting stille To analyse the behaviour of network devices wing USCO PACKET TRACER Simulator 2) Vie Copper 8 traight Through cable Stronght-Through Cable: Used to connect different Pc to Switch, Pc to tent, Switch to Router, ype of devices Hub to Router purpose: Matches the fransmit and neeine paix of different devices to enable proper communication Coos - Oner cable: Used to connect similar types of devices dinectly Pe to Pe, Surtch to Switch, tub to test, Couter to Router.

Juspose: suitches the transmit and necine pairs on one end to match the transmit on one device to the necessive on the other device Why Ethernet Port? Ethernet port is used for network connections because it supports the necessary protocole for data communication Over Local Aria Networks. * Ethernet Ps the standard Protocol for wined hetrook connections. Supports TCP/IP protocol suite which is the foundation for most network communications. Aprend Mounts 4) Ensure the line LED on the HUB glous green 5) Pe -> Derktop -> Il configuration It address: boithain any eingle network (ex: LAN) each device must have a unique IP addr Note: But same IP addresses can be used the to communicate properly different networks

DPV 4 -> 32 bit addresses: 4.3 billion unique addresses (2'32) TPv6 -> 12t bit addresses: (21 /21) Rubnet mark le a way to divide an Il notwork IP adr: 192.168.1.1 Subnet Mask: 255.255.255.0 255-1111111 (In binery)
0 - 00000000 (in banary) Expl: The subnet mark 255.255.255.0 means the frost three numbers (octets) of the IP address are the network, and the last name (outet) is the specific durice (host) on that network 1 - 192.168.1.1

Device 2 - 192.168.1.3

192.168.1.4

48 of data packets Coes and