

14-07-24

## Exercise : 2

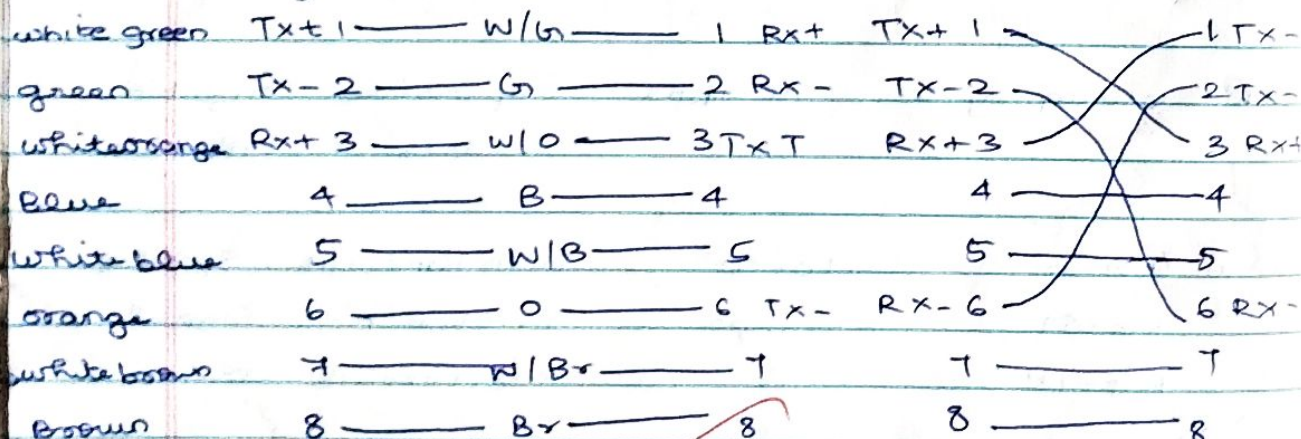
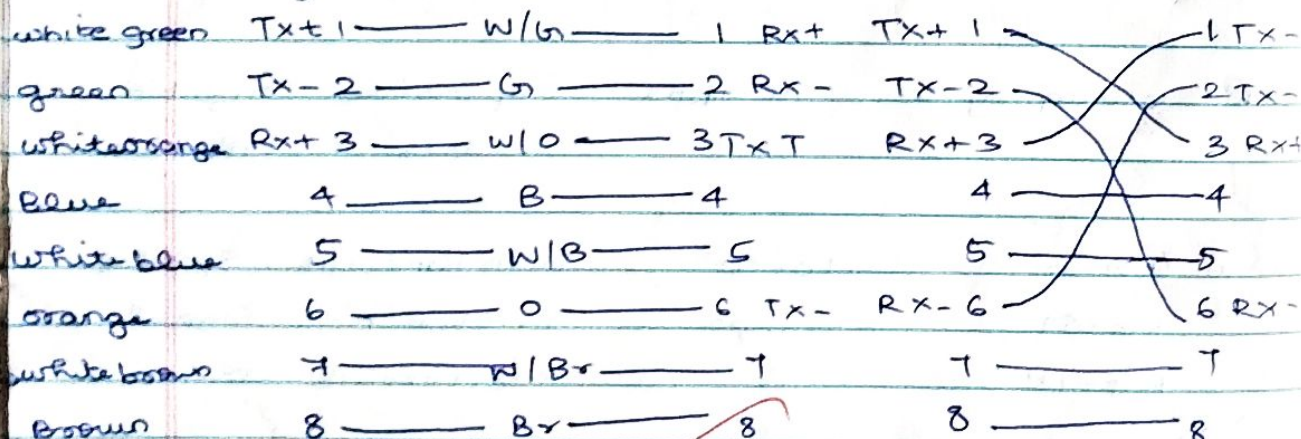
cables

AIM :- Study of different types of network,

Cable type	category	Max data	Advantage / Disadvantage	App Use	Images
<del>UTP</del>	category 3	10 bps	Adv :- 1) cheaper 2) Easy to install	10 base ethernet	
UTP	category 5	upto 100 mbps	Disadv :- More prone to (EMI) Electro	Fast Ethernet	
	category 5e	10 Gbps	magnetic Interference	Giga bit Ethernet	
STP	category 6, 6a	10 mbps	shielded faster than UTP.		
SSTP	category 7	10 Gbps	Expensive Greater	Giga bit Ethernet	
Coaxial	RG-6	10-100	High bandwidth	Speed of	
	RG-59	mbps	Immune to interference	Signal is	
	RG-11			500m	
			Limited dist		
			cost		
			size is bulky		
Fibre optic cable	<del>single mode</del> multi mode	100 Gbps	High speed High bandwidth High security long distance	Max distance is 100m	

Student observation:-

- 1) Crossover cable, transmit & receive wires are crossed; used to connect two similar services. Straight cable: Same wiring standard on both ends; used to connect different devices like pc to switch or router.
- 2) Crossover cable
- 3) Straight cable
- 5) understanding: Involves arranging wires challenges: correct wire arrangements shipping without damage output: Successfull cables enable network connections.

Straight three cableXover cable

Result:- Thus the different Network cables have been studied.

23/7/24