EXPERIMENT-2.1

Name:	UID:	
Branch: BE-CSE	Section:	
Semester:2nd		

AIM OF THE EXPERIMENT- Write the steps to prepare a Straight-through network cable. Include the snapshot/draw the sketch of RJ-45 connector and LAN Cable.

Material Required: Plain A-4 size Sheet, Sketch Pen, Pen, Pencil.

Pick a Cat5e cable and an RJ-45 Connector.

Crimping Tool will be required to punch the cable.

There are 8 Pins available in RJ-45 Connector.

The Cable also has 8 wires into it.

- This cable has 8 small cables into it with different color codes.
- These color codes allows us to prepare Straight-through cable and Cross over cable.
- There are 8 pins in RJ-45 Connector.
- Each cable is punched into the 8 pins in the connector.
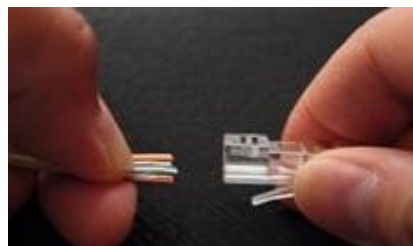
Step-1

- Uncover the upper Sheath of the cable.

Step-2

- Untwist the wire pairs and align them in T568B form.

Step-3

- Cut the wires straight so that each cable is equal.

Step-4

- Insert the wires in the connector according to the table discussed.

Step-5

• Push the connector inside the crimping tool and squeeze the crimper all the way down.

Follow the approach for Preparing Patch/ Straight through Cable

• Pin 1 in RJ-45 connector will be punched in with White/Orange Cable.

• Pin 2 will be punched in with Orange Cable.

• Pin 3 will be punched in with White/Green cable.

• Pin 4 will be punched in with Blue cable.

• Pin 5 will be punched in with White/Blue cable.

• Pin 6 will be punched in with Green cable.

• Pin 7 will be punched in with White/Brown cable.

• Pin 8 will be punched in with Brown cable.

• Both Side of the connector will have the same standard either T568A or T568B.

LEARNING OUTCOMES

- Remember the concepts related to fundamentals of C language, draw flowcharts and write algorithm/pseudocode.

- Understand the way of execution and debug programs in C language.

- Apply various constructs, loops, functions to solve mathematical and scientific problem.

- Analyze the dynamic behavior of memory by the use of pointers.

- Design and develop modular programs for real world problems using control structure and selection structure.

EVALUATION COLUMN (To be filled by concerned faculty only)

Sr. No.	Parameters	Maximum Marks	Marks Obtained
1.	Worksheet Completion including writing learning objective/ Outcome	10	
2.	Post-Lab Quiz Result	5	
3.	Student engagement in Simulation/ Performance/ Pre-Lab Questions	5	
4.	Total Marks	20	