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Akshatha.Y.G
4AL18EC005

Modifying array:

- Indexing into
* Indexing into load datafile.
data

* $x = \text{data}(\text{end}-1, 3)$

- Extracting Multiple Elements:

Create a variable named density that contains the second column of the matrix named data.

Solution: $\text{density} = \text{data}(:, 2)$

- Using a range of index values. create a vector named p containing the 2nd triangle 5th element of density.

Solution: $p = \text{density}(2:5)$

- Changing values in arrays.

- Performing Array operation on vectors.

Add 1 to each element of V_1 and store the result in the variable named γ .

$$\gamma = 1 + V_1$$

$$V_5 = V_1 + V_2$$

22 SUNDAY

Appointment Notes Work to do

• Learn IOT and data Analysis:

→ Global Community.

* More than url information.

→ How we teach.

→ Interactive Activities.

* Labs are activities that are designed to be performed on the physical equipment

→ Packet Tracer:

• Assessments.

• Course Overview.

• The Evolution of Digital Transformation.

→ sensors are everywhere generating massive amounts of data.

→ Can smart devices think.

→ All digital devices work based on computer program and supplied data.

→ Introduction to packet tracer.

→ Developing and Cabling devices.

→ Networking in the Foundation.

* personal area N/w (PAN).

* Local area N/w (LAN).

* wide area N/w (WAN).

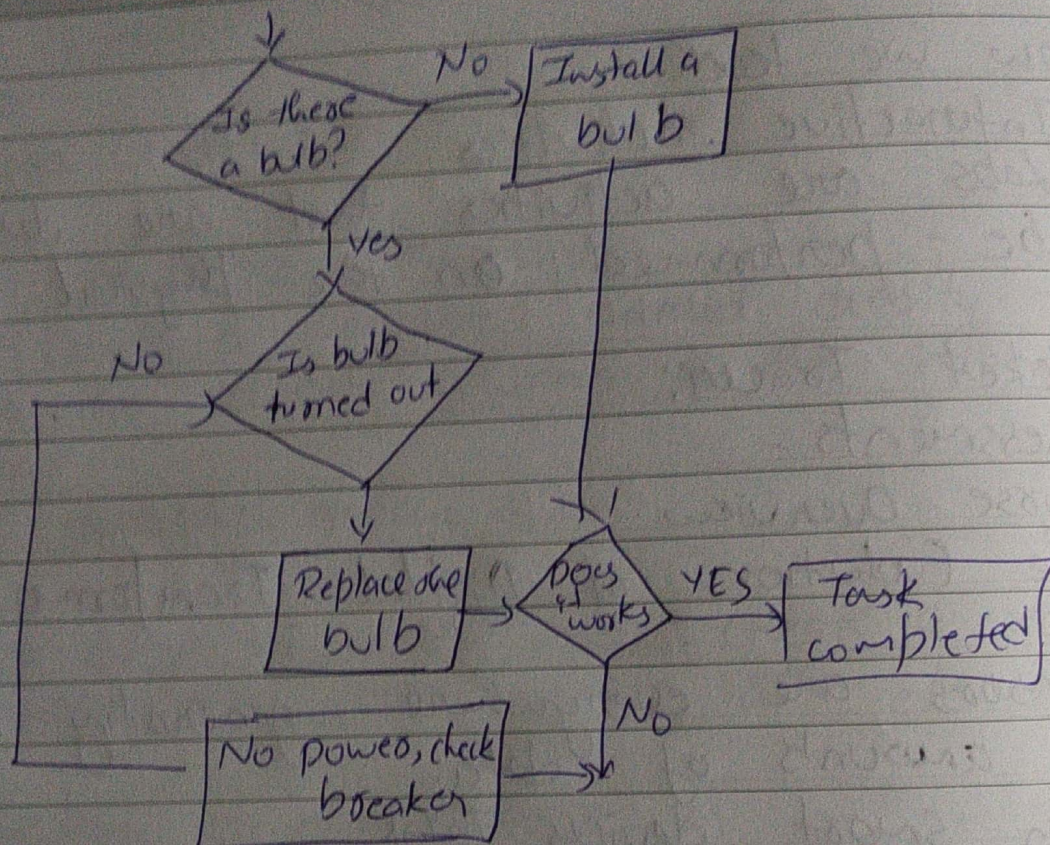
* Internet.

* wireless N/w.

* The cloud * The Edge.

* Fog computing

- Everything becomes programmable.
light Bulb Replacement Flowchart.
light does not come on



System software, Application software & computer languages.

→ Programming Variables.

' $x + y = z$ ' is an example of a programming expression.

→ Basic program structures:

• If-THEN - this logic structure allows the computer to make a decision based on the result of an expression.

→ Lab - Create a process Flowchart.

Blockly: Is a Visual programming tool created to help beginners understand the concepts of programming.

Python:

- * Useful functions and data types in python.
- * Defining prototyping.

Everything Generates Data.

* Big Data.

Volume → A lot of data.

Velocity → Data coming is quickly

Different types of data - Variety

Large Datasets:

Lab: Explore a large Dataset.

Challenges of Big data.

* Where can we store Big data?

Distributed processing?

→ Why do Business Analyze Data?

→ Source Information.

* Data Visualization.