

# Microcomputer Technology

## Chapter 3: PLC Information and Communication Techniques

by

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# Chapter 3: PLC Information and Communication Techniques

- **Aim**

- Apply the fundamental technique in PLC programming to control a basic automation system.

- **Expected outcomes**

- Describe and identify the characteristics of commonly used input and output devices.
- Explain the processing of inputs and outputs by PLCs.
- Describe communication links involved with PLC systems, the protocols and networking methods.

- **References**

- W. Bolton, Programmable Logic Control, 4th Ed.



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# Content Chapter 2

- **Number Systems**
  - The binary system
  - Octal & hexadecimal
  - Binary arithmetic
  - PLC data
- **I/O Processing**
  - I/O units
  - Signal conditioning
  - Remote connections
  - Networks
  - Processing inputs
  - I/O addresses

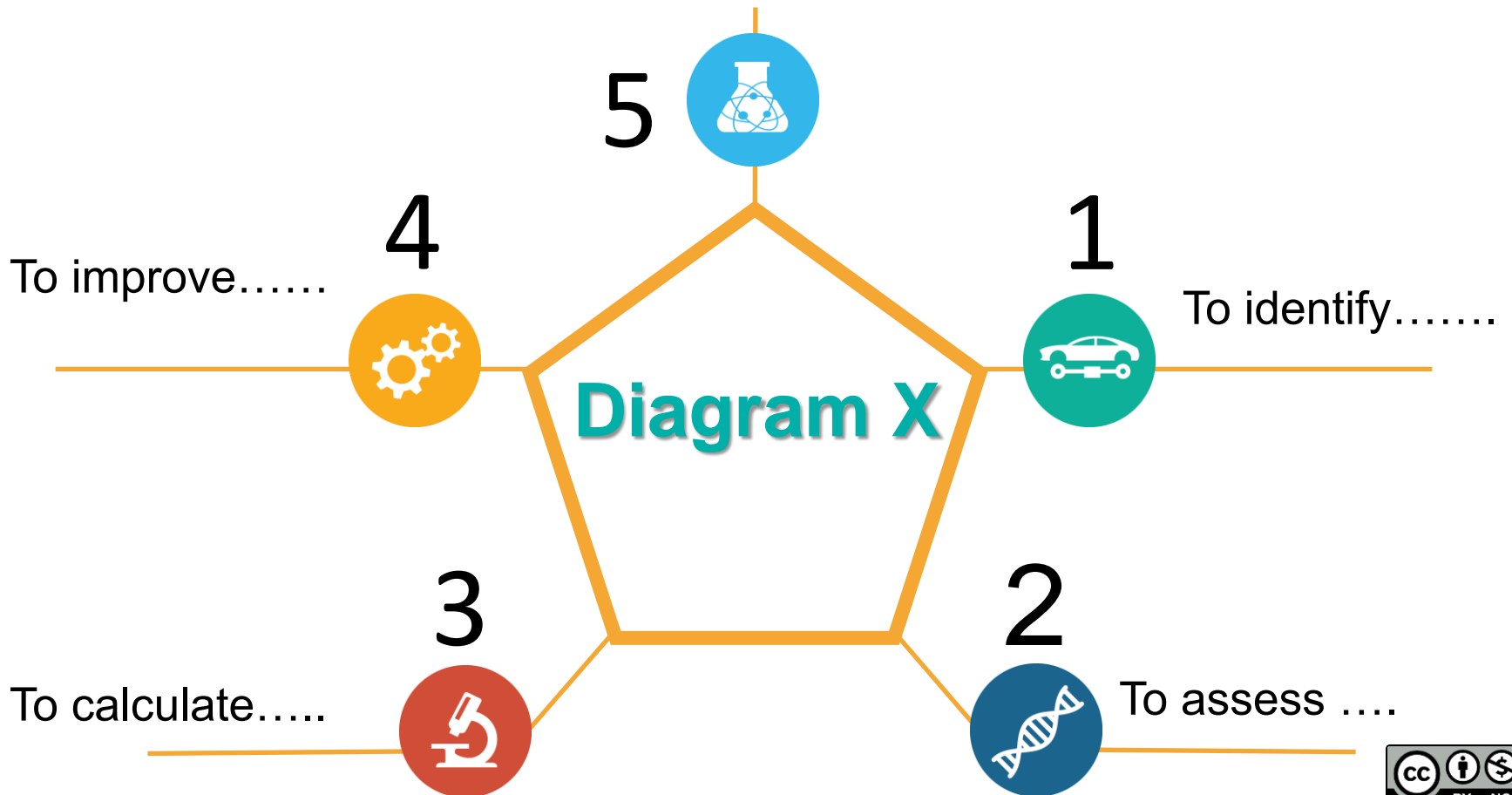


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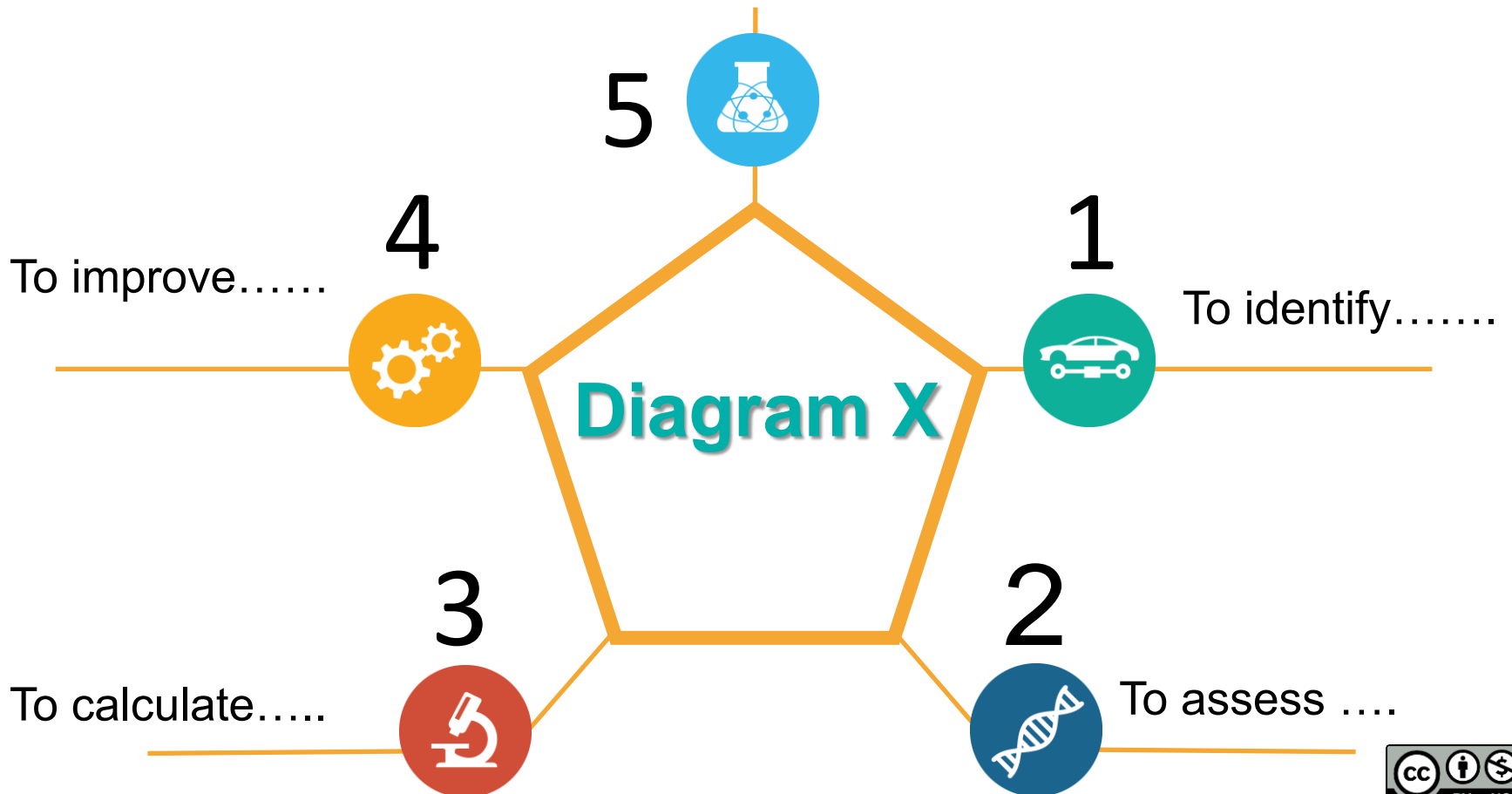
# The Binary System

To maintain.....



# Octal and Hexadecimal

To maintain.....



# Binary Arithmetic



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# PLC Data



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# Input/Output Units



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# Signal Conditioning



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# Remote Connections



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# Networks



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# Processing Inputs



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# I/O Adresses



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# Conclusion of The Chapter

- Conclusion #1

- ....
- ....

- Conclusion #2

- ....
- .....
- ....

- Conclusio #x

- .....
- .....
- .....



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