**CONCEPT** Function Block Diagramming (FBD) is a programming language used in industrial automation and control systems. It is a graphical language that uses blocks to represent functions and processes, and arrows to indicate the flow of data between them. Each block represents a specific function or operation, such as arithmetic, logical or comparison, and can be connected to other blocks to create complex programs.

EXAMPLES

BLOCKS: These are the basic building blocks of FBD, representing individual functions or operations. Blocks can be categorized into different types based on their functionality, such as arithmetic, logical, comparison or timing.

INPUTS AND OUTPUTS: These represent the signals and data that are processed by the blocks. Inputs can be represented by symbols such as switches or sensors, while outputs can be represented by devices such as motors or valves.
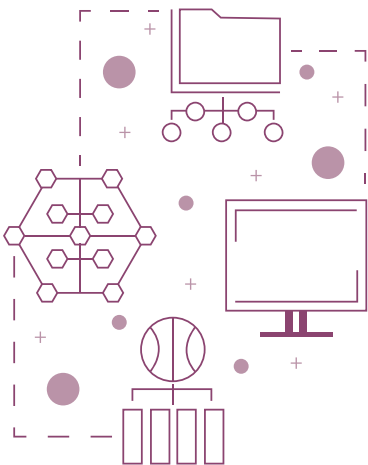
REAL WORLD CONNECTIONS

FBD can also be used in the design of control systems for public power utilities. These control systems can monitor and manage the flow of electricity across the power grid, ensuring that electricity is distributed safely and efficiently to homes and businesses. FBD can help streamline the design and implementation of these control systems, making it easier for power utilities to maintain and upgrade their infrastructure.