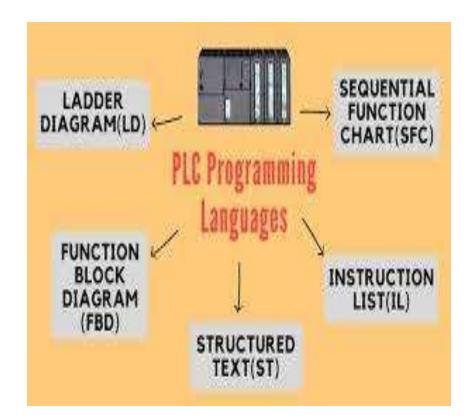


## Ladder and FBD Programming



➤ The Function Block Diagram (FBD) is a graphical language for programmable logic controller design, that can describe the function between input variables and output variables.

➤A function is described as a set of elementary blocks. Input and output variables are connected to blocks by connection lines.



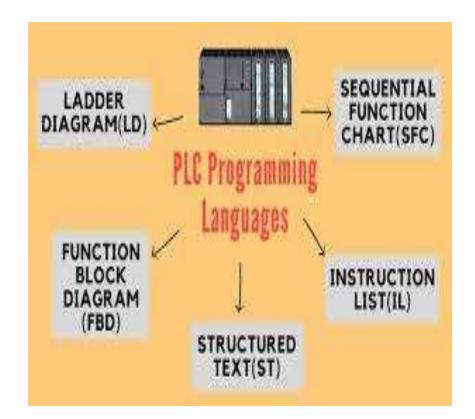


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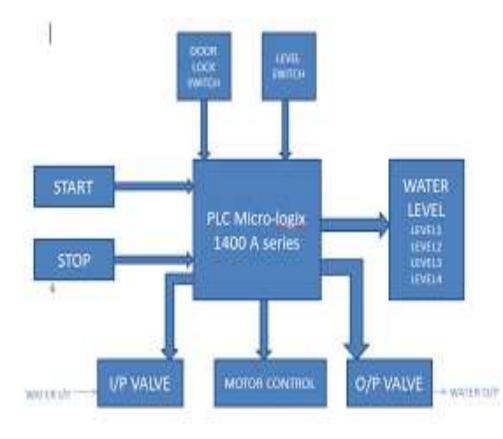
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## adder - Types of control



- ➤ Temporal -- control based in time
- State -- control based in state level
- ≻Hybrid both temporal and state
- Some common examples of control:
- ➤Washing machine, sump pump, microwave





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