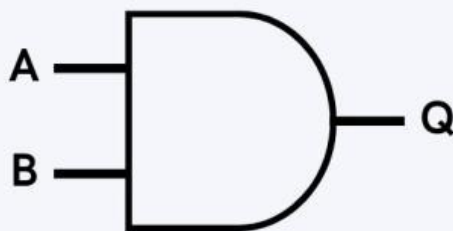


Boolean Logic



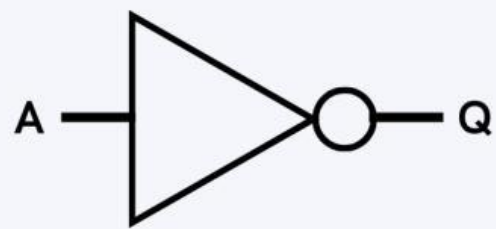
The ALU (arithmetic logic unit) is the component within the CPU where logical decisions are made. This decision making process is called Boolean logic.

AND



$$Q = A \cdot B$$

NOT



$$Q = \bar{A}$$

OR



$$Q = A + B$$

XOR



$$Q = A \oplus B$$