REFER THIS FOR MORE INFO : <https://www.youtube.com/watch?v=Xl2nWDcy0To>

A **microprocessor** is a computer processor wherein the data processing logic and control is included on a single [integrated circuit](https://en.wikipedia.org/wiki/Integrated_circuit), or a small number of integrated circuits. The microprocessor contains the arithmetic, logic, and control circuitry required to perform the functions of a computer's central processing unit. The integrated circuit is capable of interpreting and executing program instructions and performing arithmetic operations.[[1]](https://en.wikipedia.org/wiki/Microprocessor#cite_note-1) The microprocessor is a multipurpose, [clock](https://en.wikipedia.org/wiki/Clock_signal)-driven, [register](https://en.wikipedia.org/wiki/Processor_register)-based, [digital integrated circuit](https://en.wikipedia.org/wiki/Digital_integrated_circuit) that accepts [binary](https://en.wikipedia.org/wiki/Binary_code) data as input, processes it according to [instructions](https://en.wikipedia.org/wiki/Instruction_(computing)) stored in its [memory](https://en.wikipedia.org/wiki/Memory_(computing)), and provides results (also in binary form) as output. Microprocessors contain both [combinational logic](https://en.wikipedia.org/wiki/Combinational_logic) and [sequential digital logic](https://en.wikipedia.org/wiki/Sequential_logic), and operate on numbers and symbols represented in the [binary number system](https://en.wikipedia.org/wiki/Binary_number_system).