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An electronic circuit is composed of individual electronic components, such as resistors, transistors, capacitors, inductors and diodes, connected by conductive wires or traces through which electric current can flow. To be referred to as electronic, rather than electrical, generally at least one active component must be present. The combination of components and wires allows various simple and complex operations to be performed: signals can be amplified, computations can be performed, and ...

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The connection of various electrical and electronic components using connecting wires on a breadboard or by soldering on PCB to form circuits which are termed as electrical and electronic circuits. In this article, let us discuss a few simple electronics projects for beginners which are built with simple electronic circuits.

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A major use of logic circuits is in electronic digital computers. Similarly in fluid logic circuits have been developed whose function depends on the flow of a liquid or gas rather than on an electric current flow in the circuit. Types of logic circuits: Logic circuit for digital system is categorized into two main categories;

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Introduction. The development of new sensing technologies, biomaterials, microelectronic devices, microfluidic systems and micro-electro-mechanical systems (MEMs) etc., opens the window to new biomedical circuits and system opportunities to measure "better", and to develop "alternative" methods to find relevant information for physician and biologist teams, in applications such as diagnosis, therapy, clinical tests and bio-signal monitoring.