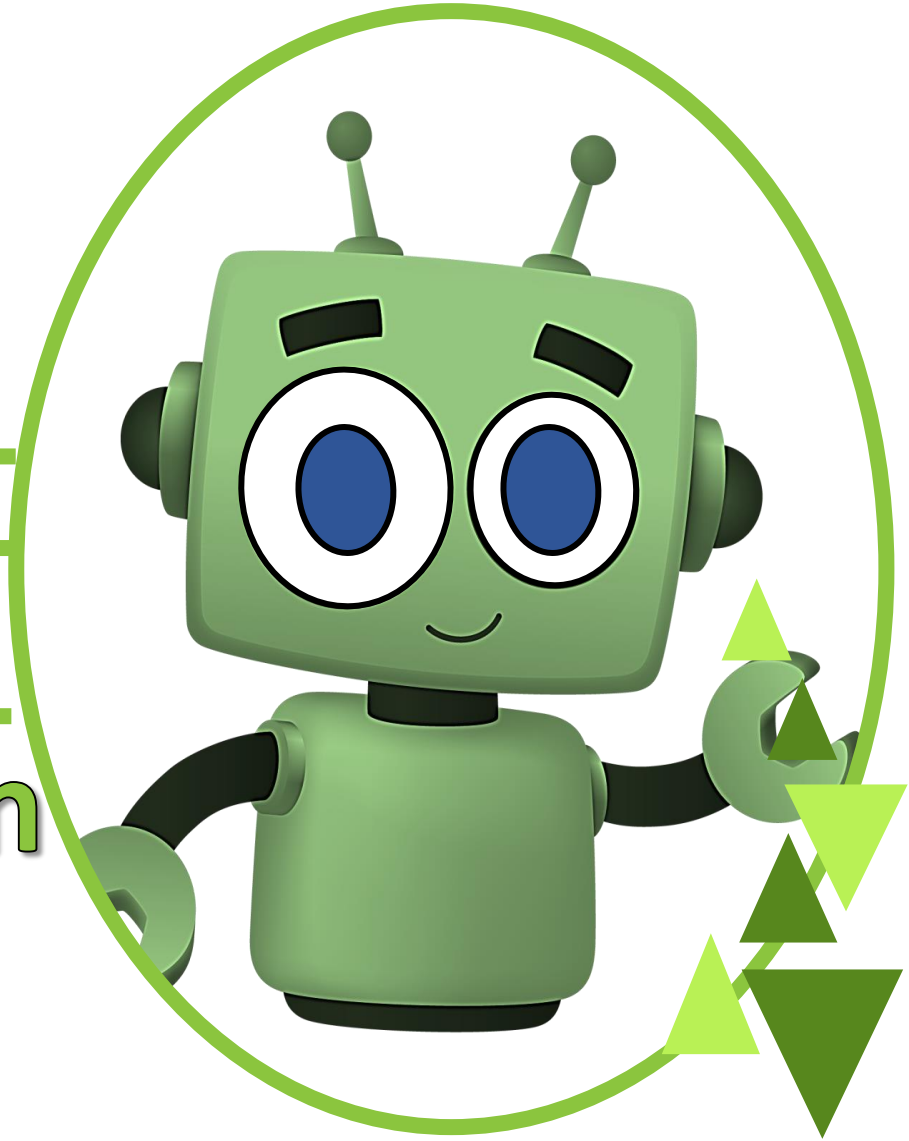
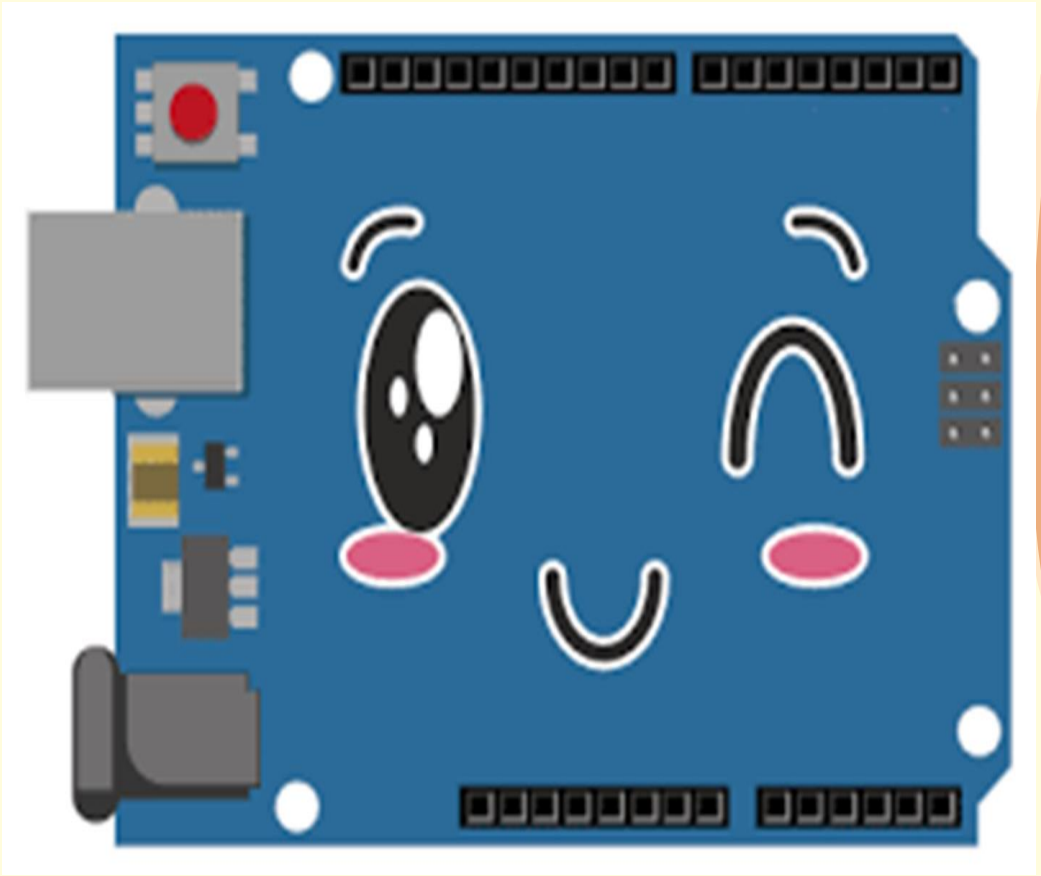
ROBOTICS CLUB



Preparation Level

let's start Lec 1

ROBOTICS CLUB



• Introduction To Robotics

Robot is a machine that can be programmed for doing any thing to do.

Robots must follow instructions from humans.

The word robot comes from robota .

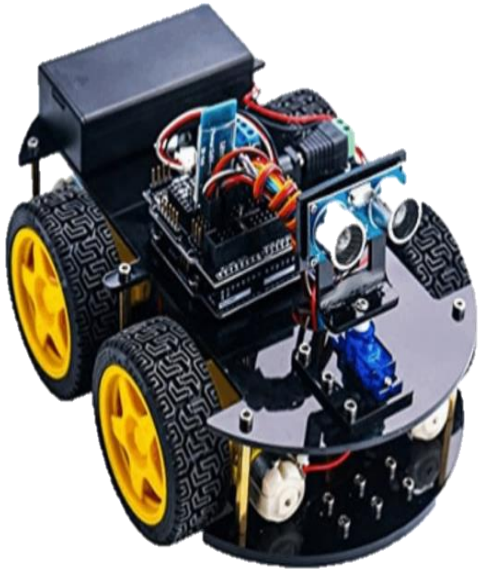
Robot makes three process:-

- sense
- Think
- Act.

• Introduction To Robotics

1) Humanoid Robot

2) mobile Robot.

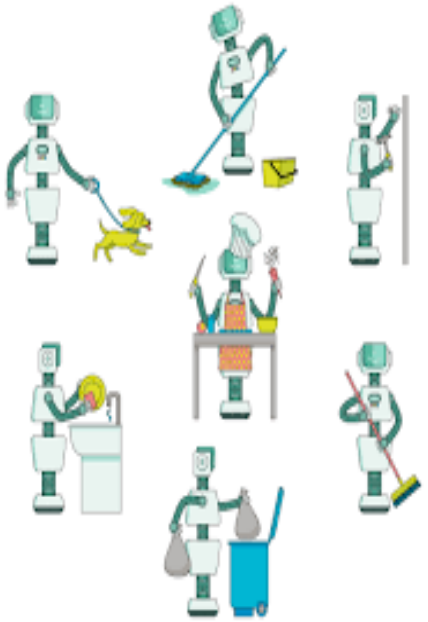


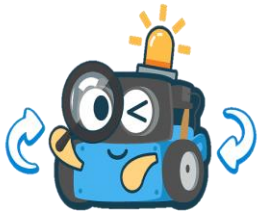
• Some Robots in our life:-

1) Industrial Robot

2) Medicine Robot.

3) Home tasks Robot.



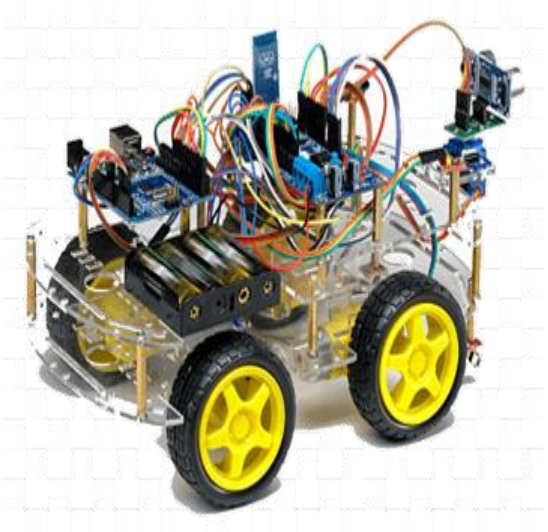


There are 3 main robot building

1) Mechanical part.

The structure of the robot with the choice of motors and motion parts.

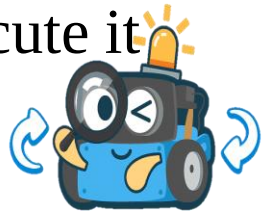
2) Electrical part.



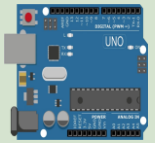
Represents the electricity power and the electronic circuit that's going to move the parts of the robot.

3) Programming part(control)

The part of programming and coding ordering the robot to execute it

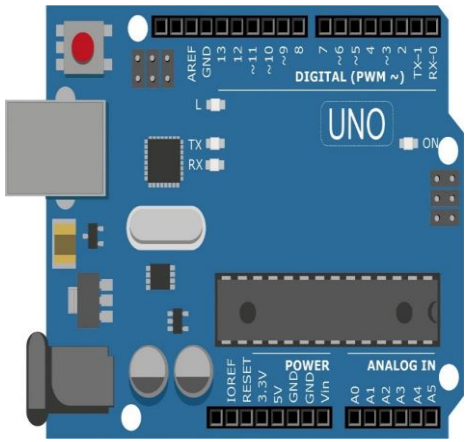


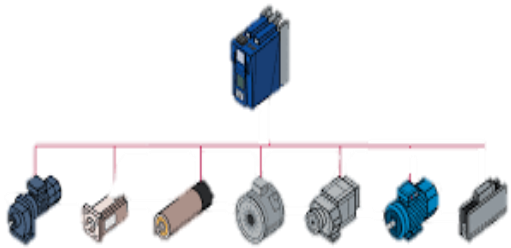
Different between Robots & Human

Human	Robot
Brain 	Arduino 
Sense 	Sensor 
Move 	Actuators (motors) 
Power 	Power (volt) 

Different between Robots & Human

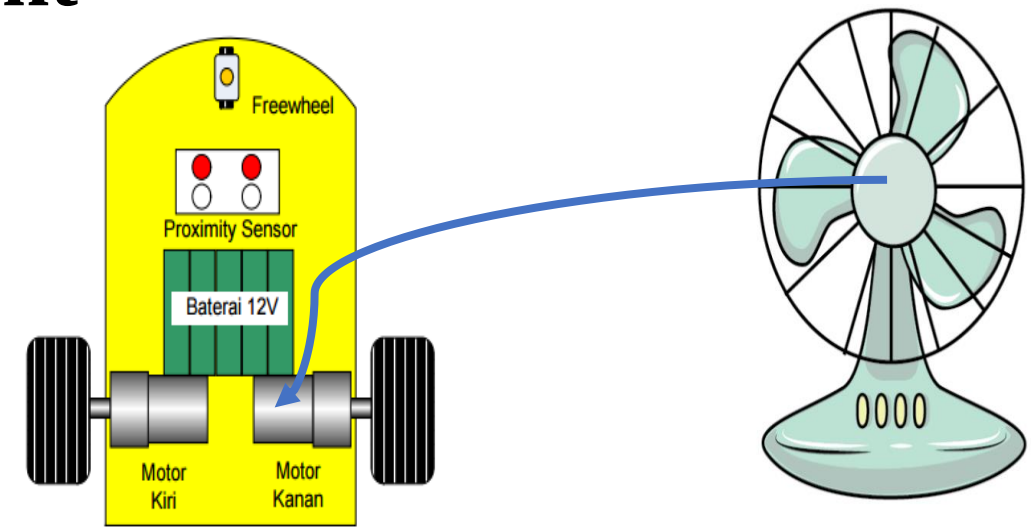
- Arduino
- sensors
- battery
- motors



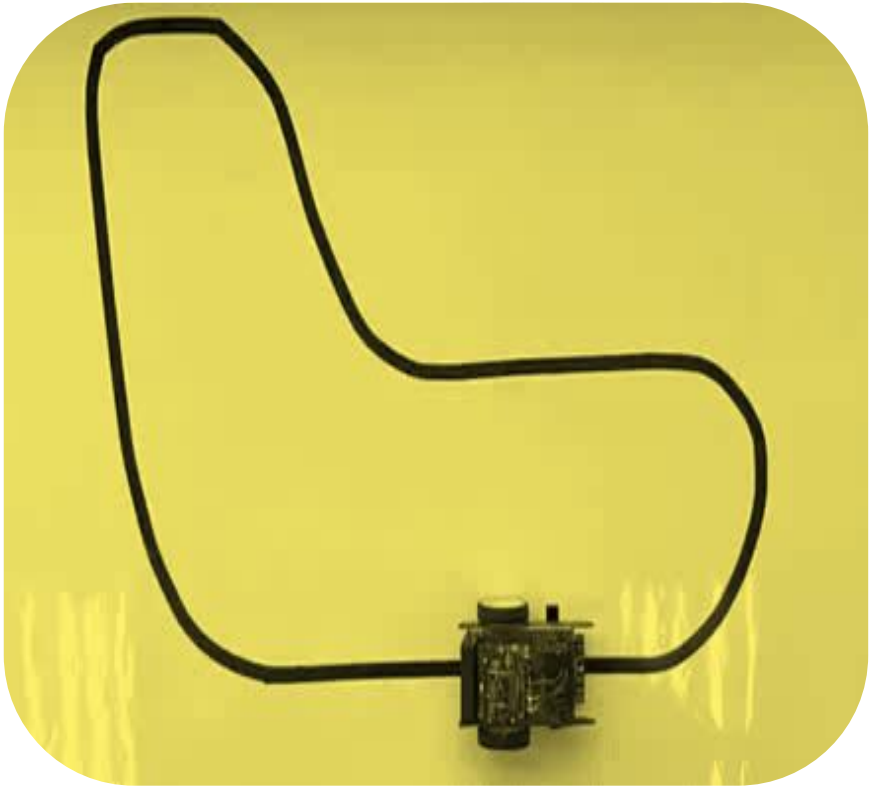


• DC Motor:-

To convert electrical energy into kinetic energy, to enable our robot from movement



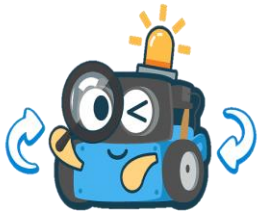
• DC Motor:-



• Battery :-

➢ Batteries:-

It is a power source for robot or any electrical component.



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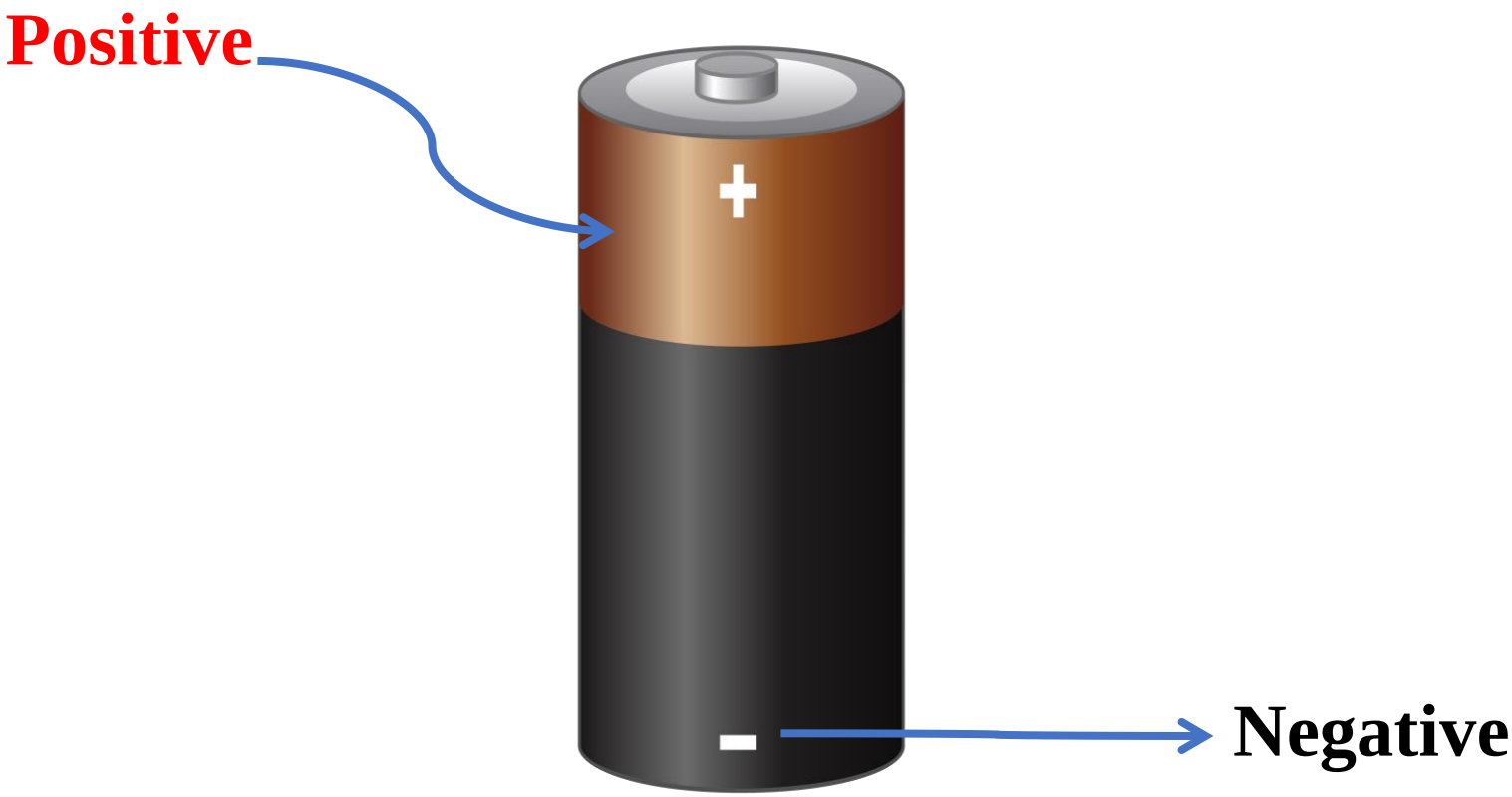
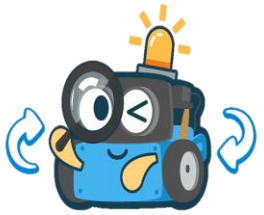
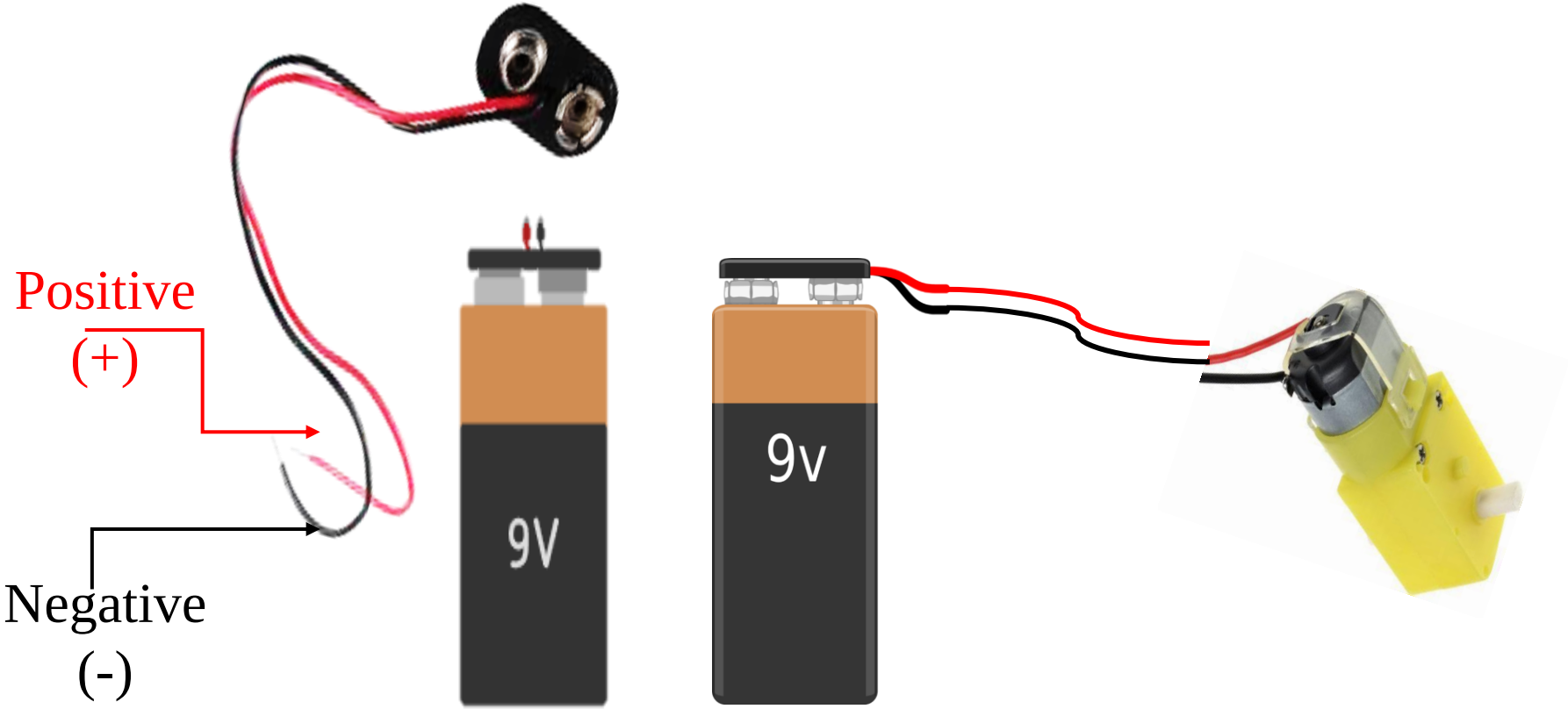




• Battery :-



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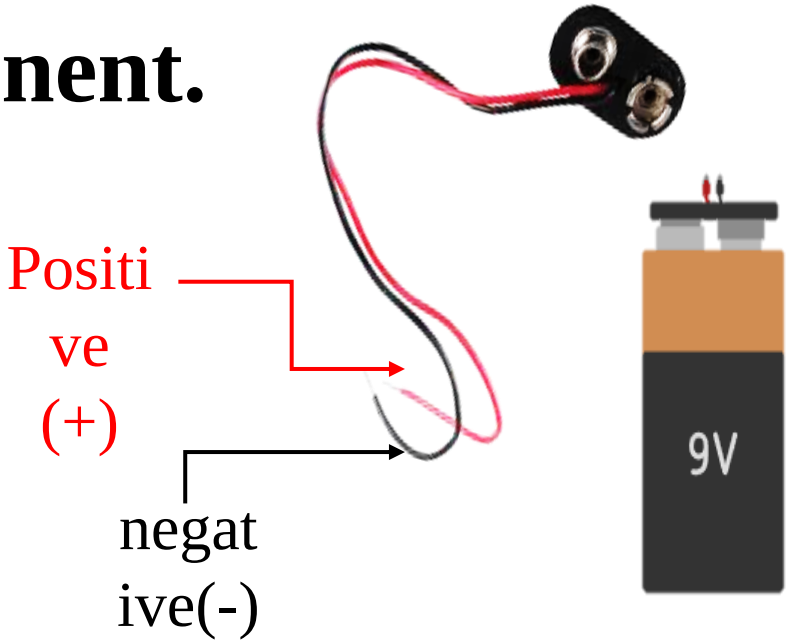
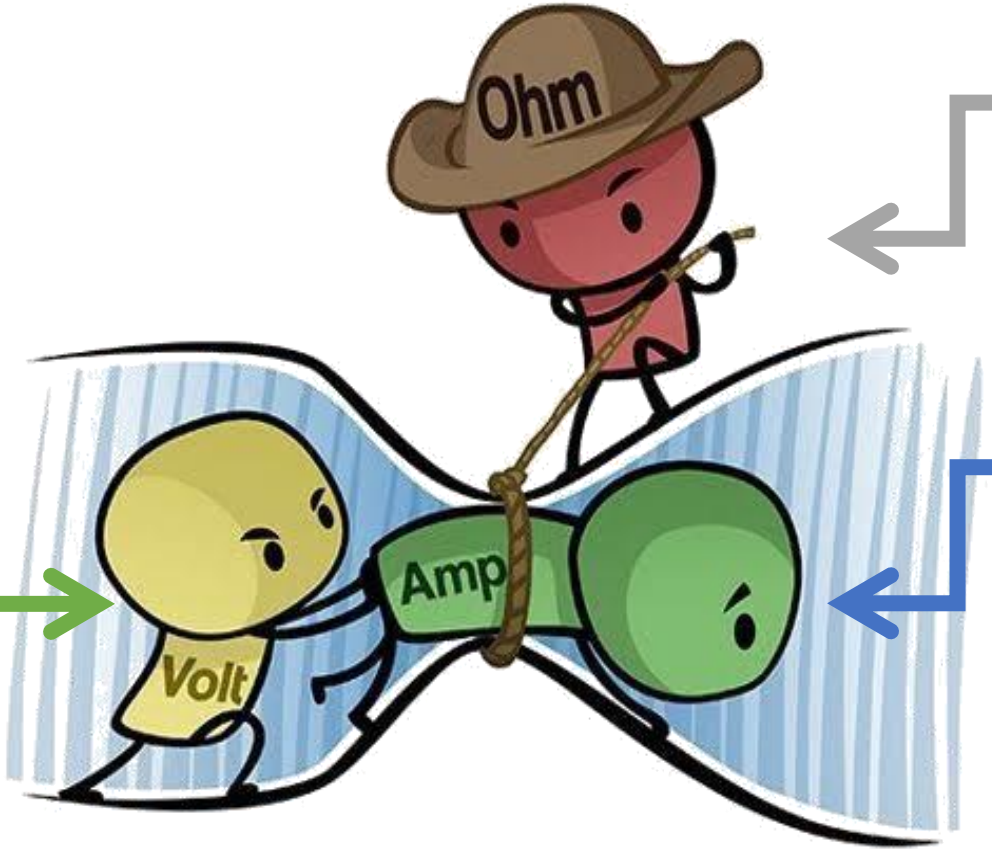


• Voltage:-

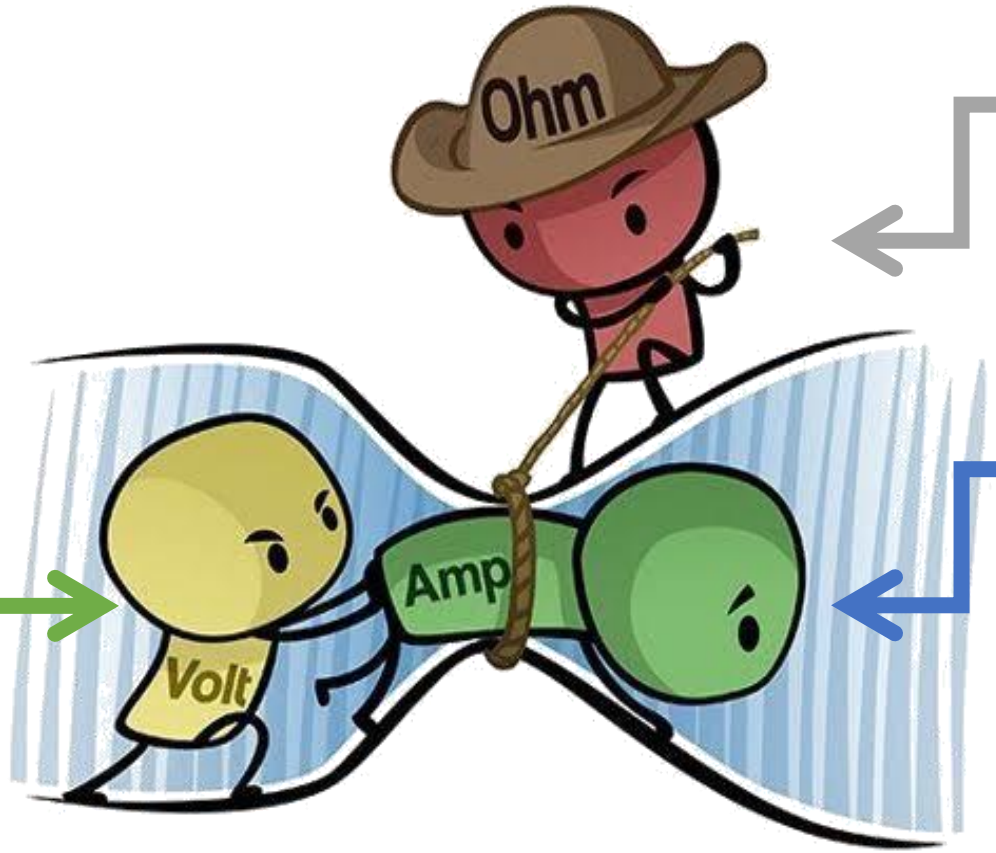


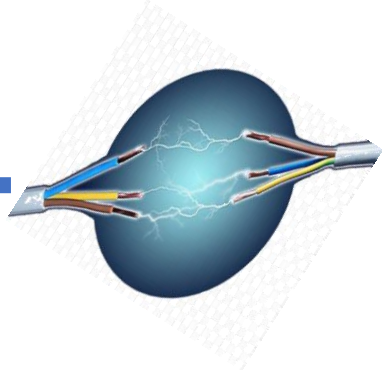
Resistance

Voltage

Current

• Voltage:-





• Circuit diagram

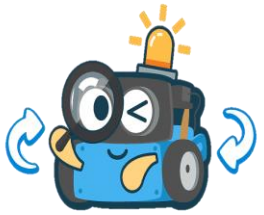
• Snap Circuit

Board

Holder

• Snap Circuit

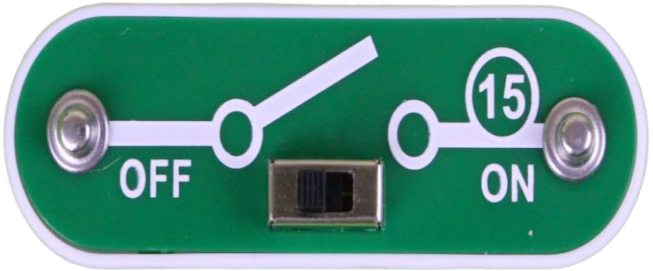
Wire

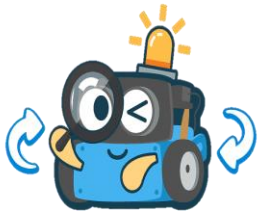


• Snap Circuit

Fan

Switch





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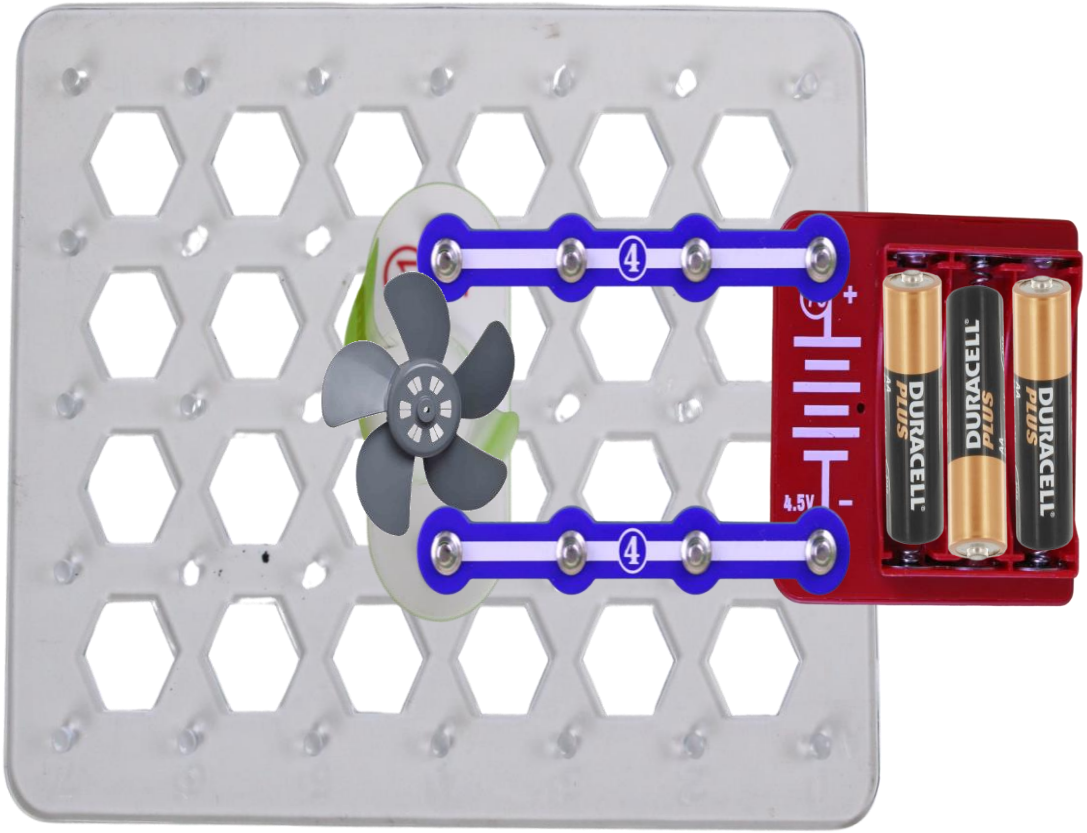

THANK YOU

FOR YOUR ATTENTION.