

Program Descriptions

Znap



Overview

Znap is a reactive robot who will drive around in a small pattern and react to an object near him. If you are close, he will warn with a hiss and if you come closer he will do a full bite.

Loop ZNP controls the biting function control. First, Variable CHK and the Ultransonic Sensor are checked with a Logic Block to see if both are true. The Ultrasonic Sensor is compared to 40 cm. If both are true, the true case of the switch block continues; the false case is empty.







www.LEGOeducation.com

Loop MN controls the movement of the robot. Beginning with Loop ROL, the Variable CHK is set to true to ensure it will be ready to bite when moving. The move pattern is engaged and waits interrupted. Once it is, the motors are stopped and Variable CHK is set to false so it cannot do any action other than biting. Two Seconds at a wait block make sure there is time for the robot to reset.

