

Dobbiamo salvare il robot Susan (2)

Scripts Susan

The image shows two Scratch scripts for the Thymio robot Susan. The left script is a 'when clicked' event that sets the motor velocity to 100, turns on the top LEDs (R: 0, V: 0, B: 0), and enters a loop that repeats while the 'guasto' flag is 1. Inside this loop, it checks if the front distance is 190 or the ground distance is greater than 250. If true, it stops the motors. Otherwise, it checks the central, left, and right distance sensors. If the central sensor is greater than 1500, it sets all motor velocity to 'Velocità'. If the left sensor is greater than 2000, it sets the left motor velocity to 0 and the right motor velocity to 'Velocità'. If the right sensor is greater than 2000, it sets the left motor velocity to 'Velocità' and the right motor velocity to 0. After the loop, it waits for 0.2 seconds. The right script is also a 'when clicked' event that sets 'tempo_totale' to 10, 'guasto' to 0, and resets the timer. It enters a loop that repeats while the timer is greater than 'tempo_totale'. Inside, it turns on the top LEDs (R: 0, V: 32, B: 0), waits 1 second, turns on the top LEDs (R: 0, V: 0, B: 0), and waits 1 second. It then sets 'guasto' to 1 and repeats 5 times: turns on system sound (5), turns on all LEDs (R: 32, V: 0, B: 0), waits 0.5 seconds, turns on all LEDs (R: 0, V: 0, B: 0), and waits 0.5 seconds. After the loop, it turns off LEDs, stops motors, and turns on system sound (1).