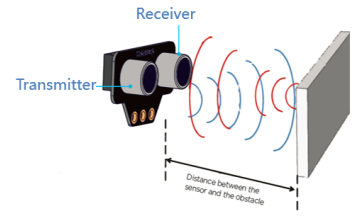


Ultrasonic Sensor & Light Sensor Gradesheet



Summary	Description	Instructor Initial of Completion
Ultrasonic Sensor		
Task #1: Test The Ultrasonic Sensor	Write a program in which when an object is moved in front of the Ultrasonic Sensor, the wheels will stop spinning.	
Task #1B: Comparing Similar Programs	1. What will the robot do when Program A is used? _____ _____ 2. What will the robot do when Program B is used? What is the difference between how the lines of code in the two programs were written? _____ _____ _____ 3. Explain what the robot actually did when Program A was turned on. _____ _____ 4. Explain what the robot actually did when Program B was turned on. _____ _____ _____ 5. Which of the two lines of code functions better and why? _____ _____ _____	
Task#2: Robot Stops at Object.	Write a program in which the robot moves forward. When the sensor detects the wall, it will stop.	
Task #3: Robot Drives in a Circle around an Object.	Write a program in which your robot is to proceed around the center object and return to its starting point without touching the walls and the center object.	
Light Sensor		
Task #1: Test the Light Sensor.	The wheels should turn forward. But...when the light reaching the light sensor on the Brain is blocked, the wheels will "Stop Moving."	
Task #2: Park My Robot!	When the robot enters a container that blocks the light from reaching the Light Sensor, the robot should stop, back up to the original position, turn 90 degrees to the left and do it all over again. The robot should repeat this sequence four times, entering and leaving the boxes four times. (Use Operators / If Then / Forever statements).	
Ultrasonic Sensor & Light Sensor		
Task #1: Ultrasonic Sensor & Light Sensor: Guide the Robot Thru Maze	Your robot will rely on the Ultrasonic Sensor to turn right and the Light Sensor to turn left as it works its way through the maze.	