Activity M55

Task

Students will program the robot to follow the number line on the left side of mat A. The robot will drive straight and make three different runs with the msleep() function times of 2000, 3200, and 2594. Students will describe a length to the nearest whole unit using a number and a unit.

Materials

- Robot
- JBC mat A,
- Pseudocode paper

Prerequisite in Curriculum

Completed Module 9- Moving Your Robot

Planning

- Robots may drive off the mat during a run. Non-mat surface will be specified (size, carpet, etc.)
- The robot must start completely behind the vertical projection of the inside of the start line.
- Students may use unifix cubes, rulers, and yardsticks to measure the shapes they make with the robot

Outcomes and Examples

- Students will describe a length to the nearest whole unit using a number and a unit
- Students will program the robot to move straight.
- Students will have three programs with msleep times of 2000, 3200, and 2594.
- Students will use mat A number line to find the nearest whole unit where the casters stops.