Name_____

Lesson 3: Worksheet 3.2 – Turn left 180°

In this activity, you need to write two different programs to turn your Edison robot left exactly 180°.

Your turn:

Task 1: Turn left exactly 180°

Write a program that makes your Edison robot turn left exactly 180°.

Hint: Try using the program you used in worksheet 3.1 as a starting point.

Download your program and test it using activity sheet 3.1 or coloured tape to mark 'start' and 'end' angle marks on a desk or the floor as a test area for your program. Remember to experiment with your program. If your Edison doesn't turn exactly 180°, try adjusting your input parameters and test again.

1. What are the input parameters you used to make the robot turn exactly 180°? If you used a variable, include what value you assigned to that variable.

Task 2: Turn exactly 180° using the Ed.DriveRightMotor() command

EdPy has a command called 'Ed.DriveRightMotor()' which makes only Edison's right motor move. If only the right motor moves, which way will Edison turn? Hold Edison in your hands and imitate what will happen if only the right motor moves.

Search for the Ed.DriveRightMotor() command in the Documentation window of the EdPy app to see how this function works.

Then write a program that makes your robot to turn left 180° using the Ed.DriveRightMotor() function.

2. What are the input parameters you used to make the robot turn left exactly 180° using the Ed.DriveRightMotor() command?