**Activity 4 to be done in pairs:** Move the vehicle in a figure of 8 pattern. Vehicle must return to starting position at the end. Vehicle cannot be more than 10cm from starting location and no more than 30 degrees from starting direction (to allow for vehicle error margin).

Vehicle must halt at the end of the sequence waiting for a button press before moving through the figure of 8 again.

To do this you must create 3 library functions, forward, right and left.

Forward takes an argument and moves the vehicle for a period of time.

Test for 50cm

Right and left turn the vehicle 90o in their respective directions

All function to have documentation using comments.

**Deliverables:**

Students to develop their structure in the Sprint documents

**Possible structure:**

Students to develop in Sprint documents

**Focus:**

Completing the task, document the deliverables and outcomes

**Internet Of Things (IOT) Application**

Park assist in cars

**Challenge Activity: Display the vehicle’s action on the LCD if when the vehicle is moving forward, forward id displayed on the LCD. Use the LEDs as turn indicators.**