# The Nine Herculean Labours of Tribot

To start learning NXC programming with Lego Mindstorms, you are going to make your Tribot accomplish nine amazing feats of strength and courage. Using the NXC tutorial to help you, program Tribot to:

1. travel in a sqaure path.

2. travel in the same square path 3 times using a repeat loop.

3. travel in the same square path a random number of times.

4. drive forwards until it detects a colision with the touch sensor. When this happens, drive backwards a bit and stop.

5. drive forwards until it detects a colision with the touch sensor. When this happens, tell Tribot to grab the thing it collided with using it's claws, then drive backwards a bit and stop.

6. move continuously inside the testpad. Use the light sensor to watch out for the big black line. If Tribot drives over the black line, it will back up, turn, and continue forward in it's new direction.

7. sit still and wait until the sound sensor detects loud sounds, like a clap. Every time Tribot hears a clap, it will then clap (to the best of his ability) with his claw.

8. drive around the classroom or school aimlessly. Use the ultrasonic sensor to detect if it comes close to an obstacle (around 10-15cm). If this happens, Tribot will back up, turn, and continue forward in it's new direction.

9. sing a pretty song (pg 28-30).