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| TC ID | Test Case Description | Pre-Condition | Steps | Expected Result | Pass / Fail |
| 1 | Move the car forward by 1 grid | 1. Initialised Motor ports 2. Car facing forward 3. 1 Grid in front of the car is not blocked | 1. Run Motor\_init() to initialise the Motor ports. 2. Run Motor\_driveForward() function | Car moved forward by 1 grid. | Pass |
| 2 | Move the car backward by 1 grid | 1. Initialised Motor ports 2. Car facing forward 3. 1 Grid behind of the car is not blocked | 1. Run Motor\_init() to initialise the Motor ports. 2. Run Motor\_reverse() function | Car moved backward by 1 grid. | Pass |
| 3 | Turn the car to the right by 90 degree | 1. Initialised Motor ports 2. Car facing forward | 1. Run Motor\_init() to initialise the Motor ports. 2. Run Motor\_turnRight() function | Car turned right by 90 degree. | Pass |
| 4 | Turn the car to the left by 90 degree | 1. Initialised Motor ports 2. Car facing forward | 1. Run Motor\_init() to initialise the Motor ports. 2. Run Motor\_turnLeft() function | Car turned left by 90 degree. | Pass |
| 5 | Turn the car to the right by 45 degree | 1. Initialised Motor ports 2. Car facing forward | 1. Run Motor\_init() to initialise the Motor ports. 2. Run Motor\_turn45Right() function | Car turned right by 45 degree. | Pass |
| 6 | Turn the car to the left by 45 degree | 1. Initialised Motor ports 2. Car facing forward | 1. Run Motor\_init() to initialise the Motor ports. 2. Run Motor\_turn45Left() function | Car turned left by 45 degree. | Pass |