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| **S/N** | **Precondition(Given That)** | **Action(When)** | **Assertion(Check That)** |
| 1 | I have a bike |  | It is off at initial state |
| 2 | I have a bike and it is off | When I turn it on | It comes on |
| 3 | I have a bike and it’s on | When I shut it down | It goes off |
| 4 | I have a bike and it’s on |  | Initial speed is 0 and gear is 1 |
| 5 | I have a bike and it’s on | When I accelerate | Speed increases by a value = gear (1,2,3,4) |
| 6 | I have a bike and it’s on | When I decelerate | Speed decreases by a value = gear (1,2,3,4) |
| 7 | I have a bike and it’s on  It’s on gear 1 | When speed > 20 | Gear changes automatically to 2 |
| 8 | I have a bike and it’s on  It’s on gear 2 | When speed > 30 | Gear changes automatically to 3 |
| 9 | I have a bike and it’s on  It’s on gear 3 | When speed > 40 | Gear changes automatically to 4 |
| 10 | I have a bike and it’s on  It’s on gear 4 | When speed < 41 | Gear changes automatically to 3 |
| 11 | I have a bike and it’s on  It’s on gear 3 | When speed < 31 | Gear changes automatically to 2 |
| 12 | I have a bike and it’s on  It’s on gear 2 | When speed < 21 | Gear changes automatically to 1 |
| 13 | I have a bike and it’s on | When speed = 0 and I attempt to decelerate | Speed remains unchanged |