**Test Cases**

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| **Test case ID** | **Test Scenario** | **Input** | **Output** |
| 1 | Heater is Off | Switch=0 | LED OFF |
| 2 | Person Exist  and Heater button is ON | Switch=1 | LED ON |
| 3 | Person does not exist and Heater button is ON | Switch=0 | Seat-Temperature  Off-0 ◦c |
| 4 | Temperature Control | Temperature=20 | Seat-Temperature 20 ◦c |
| 5 | Temperature Control | Temperature=25 | Seat-Temperature 25 ◦c |
| 6 | LCD Display | Temperature=30 | Seat-Temperature 30 ◦c |
| 7 | LCD Display | Temperature=40 | Seat-Temperature 40 ◦c |