

REPORT BY:

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ASSUMPTIONS:

- When the door is closed, switching the state of air conditioner does not turn on the blinking LEDs(alarm).
- If the door is closed and air conditioner is on, opening the door, turns the blinking LEDs (alarm) on.
- If the door is open and air conditioner is on, then closing the door, affects the interior light behaviour in the same way as when the air conditioner is turned on after the door is closed(last specification mentioned in the assignment document).
- Blinking period of alarm is 300 ms, ie, the 2 LED lights are on for 300 ms, then off for 300 ms, so on and so forth.
- The dimming period is 8 seconds. It takes 8 seconds for the light to reach from maximum brightness to minimum brightness.
- The blinking period used for the PWM is 10 ms.(1 ms for a tick)
- If the air conditioner is turned on after the door is closed, and the lights are already dimming, then the 10 second duration covers the rest of the dimming period and time it stays at minimum brightness. After these 10 seconds, lights are switched off completely.
- If the air conditioner is turned on after the door is closed, and the lights are at full brightness, they dim down for 8 seconds, stay in minimum brightness for 2 seconds and are switched off.
- The alarm can also be deactivated by switching the air conditioner off. (Along with closing the door).

All features should work...