

Sistemas Embarcados

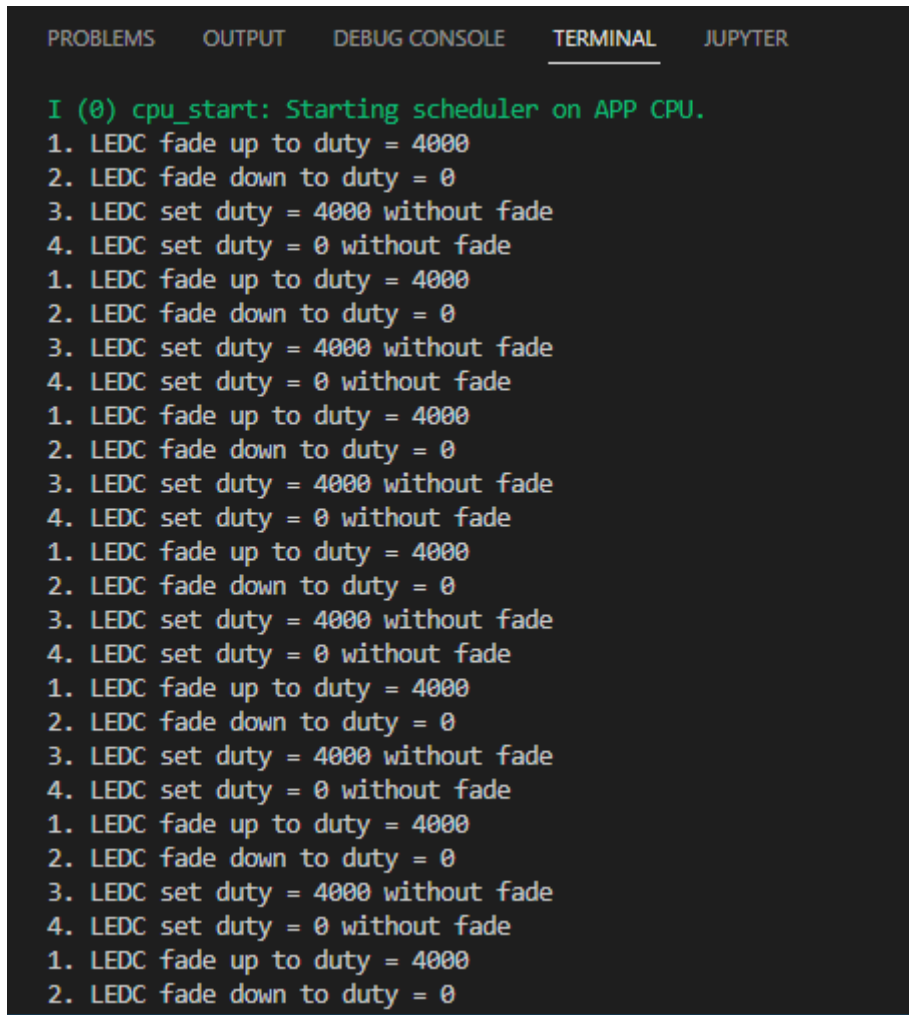
Prática 4

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Procedimento:

1 e 2) Saída do terminal

A screenshot of a terminal window with a dark background and light-colored text. At the top, there are tabs labeled 'PROBLEMS', 'OUTPUT', 'DEBUG CONSOLE', 'TERMINAL' (which is selected and underlined), and 'JUPYTER'. The terminal output shows a green message 'I (0) cpu_start: Starting scheduler on APP CPU.' followed by a repeating sequence of four commands: '1. LEDC fade up to duty = 4000', '2. LEDC fade down to duty = 0', '3. LEDC set duty = 4000 without fade', and '4. LEDC set duty = 0 without fade'. This sequence is repeated five times.

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  JUPYTER

I (0) cpu_start: Starting scheduler on APP CPU.
1. LEDC fade up to duty = 4000
2. LEDC fade down to duty = 0
3. LEDC set duty = 4000 without fade
4. LEDC set duty = 0 without fade
1. LEDC fade up to duty = 4000
2. LEDC fade down to duty = 0
3. LEDC set duty = 4000 without fade
4. LEDC set duty = 0 without fade
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1. LEDC fade up to duty = 4000
2. LEDC fade down to duty = 0
3. LEDC set duty = 4000 without fade
4. LEDC set duty = 0 without fade
1. LEDC fade up to duty = 4000
2. LEDC fade down to duty = 0
```

Os LEDs funcionam com um “fade up” até o valor de 4000 (aproximadamente 50% de duty cycle) -> depois temos um “fade down” até um duty cycle de 0 -> o duty cycle é fixado em 4000 sem fade -> o duty cycle é fixado em 0 sem fade;

Os IOs invertidos são o GPIO 4 e 5;

A frequência do PWM é de 5kHz;

