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Question 1 [C01] [10 Points]

Design the **SleepTracker** class so that the following Tester class generates the expected output

Driver Code	Outputs
<pre> public class Tester { public static void main(String[] args) { SleepTracker panda = new SleepTracker(); panda.setDetails("Snorlax", 4); System.out.println("====="); panda.describe(); System.out.println("Is sleepy? " + panda.isSleepy()); System.out.println("====="); panda.sleepMore(4); panda.describe(); System.out.println("====="); panda.sleepMore(5); panda.describe(); System.out.println("====="); panda.sleepMore(2); panda.describe(); System.out.println("====="); panda.wakeUp(); panda.describe(); System.out.println("====="); panda.wakeUp(); System.out.println("====="); panda.sleepMore(5); panda.describe(); System.out.println("====="); System.out.println("Is sleepy? " + panda.isSleepy()); } } </pre>	<pre> ===== Panda name: Snorlax Hours slept: 4 Is dreaming: false Is sleepy? true ===== Panda name: Snorlax Hours slept: 8 Is dreaming: false ===== Can not sleep more than 12 hours Panda name: Snorlax Hours slept: 8 Is dreaming: false ===== Panda name: Snorlax Hours slept: 10 Is dreaming: true ===== Panda name: Snorlax Hours slept: 0 Is dreaming: false ===== Panda is already awake ===== Panda name: Snorlax Hours slept: 5 Is dreaming: false ===== Is sleepy? false </pre>