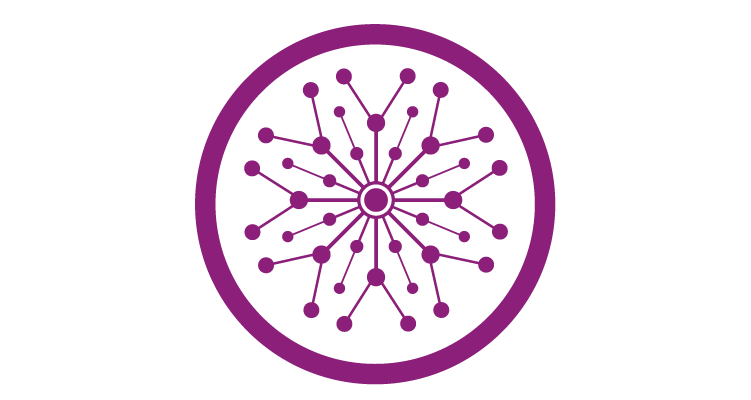
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**Introduction:**

This program implements a Model-Based Reflex Agent for temperature control in different rooms. The agent checks the current temperature of each room and compares it with a desired temperature. Based on this comparison, it decides whether to turn the heater on or off. The agent also remembers its previous action to avoid unnecessary switching.

**Features:**

* Takes a desired temperature as input
* Reads the current temperature of each room
* Decides whether to turn the heater on or off
* Avoids unnecessary switching by remembering the last action

**Details:**

The code defines a class Tem with an \_\_init\_\_ method that initializes the desired temperature and previous action. The check method compares the current temperature with the desired temperature and decides the action.

**Problems Faced:**

* Incorrect constructor definition: Fixed by using the correct \_\_init\_\_ function and passing desired\_temp to it.
* Repeated actions: Solved by adding a condition to compare the new action with the previous action.

**Advantages:**

* Saves energy by avoiding repeated switching
* Works for multiple rooms easily
* Simple to understand and implement

**Disadvantages:**

* Only supports heating, no cooling option
* Same desired temperature for all rooms
* Cannot handle complex cases like faulty sensors or sudden weather changes