**Model-Based Reflex Agent**

1. It **reads the temperature** (from a list).
2. If the temperature is **below 18°C**, it turns the **heater ON**.
3. If the temperature is **above 24°C**, it turns the **heater OFF**.
4. If the temperature is **between 18°C and 24°C**, it **keeps the previous action** (doesn’t switch unnecessarily).
5. Each reading and action is **saved in a file (temperature\_log.txt)** so we can check the record later.

This helps the agent act smartly — it **remembers its last state** and avoids wasting energy by turning the heater on or off repeatedly