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**SUBJECT:** Artifical Intelligence (LAB)

**Task No -3**

**Why this code was made:**

The purpose of this code was to illustrate an AI model-based reflex agent.  
Its goal is to automatically regulate the air conditioning in various rooms. Depending on the room temperature, the agent chooses whether to turn the air conditioner on, off, or not at all.In order to avoid repeating the same command too often, it also keeps track of the last action in each room.

**How this code works:**

The agent is given a set temperature, such as 25°C.  
  
For every room:  
  
The temperature and room name are read by the sensor.  
  
The agent contrasts the fixed temperature with the current one:  
  
If it's hotter, turn on the air conditioner.  
  
Turn off the air conditioner if it's cooler or equal.  
  
Do nothing if the same thing has already been done in that room.  
  
Every room's most recent action is stored in memory by the agent.  
  
The outcome is then printed by the actuator in the following format:

