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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 artificial intelligence model-based reflex agent. Its purpose is to automatically control the temperature of different rooms by deciding whether to turn on the AC, turn it off, or do nothing, based on a fixed desired temperature. It keeps track of the last action performed in each room, preventing needless repetition of the same action.

**How this code works:**

A set temperature, such as 25°C, is applied to the agent.  
  
For every room:  
  
The name of the room and its current temperature are read by the sensor.  
  
The fixed temperature and the current temperature are compared by the performance function:  
  
Warmer "Switch on the air conditioner"  
  
"Turn off the air conditioner" or something similar  
  
It selects "Do nothing" if the same action has already been performed in that room.  
  
For that room, the action is stored in memory.  
  
The room, temperature, and action results are printed by the actuator.

