**Name : Nabeeha Ali Rana**

**Section : DS - 3A**

**Roll No : BSDSM - 037**

**AI LAB**

**Task 3**

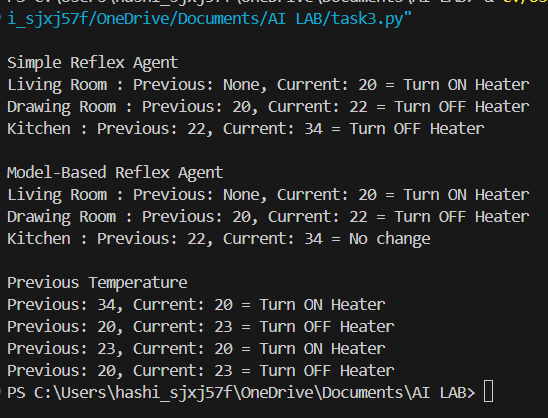
### **Simple Reflex Agent**

* How it works:  
  + Reads the current temperature.
  + If temperature < fixed value → Turn ON Heater
  + Else → Turn OFF Heater
* Why:  
  + Reacts instantly to conditions.
  + No memory → may repeat the same action again and again.

### **Model-Based Reflex Agent**

* How it works:  
  + Reads the current temperature.
  + Decides ON/OFF like the simple agent.
  + Remembers the previous action.
  + If the action is the same as last time → prints “No change”.
* Why:  
  + Uses memory (model) to avoid repeating unnecessary actions.
  + More efficient and realistic.

**Output:**

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