**#TASK 3:**

This code simulates a simple **temperature control system** using conditional statements and a **Simple Reflex Agent**. First, the program prompts the user to enter the current room temperature. It then checks whether the temperature is above, below, or equal to **22°C** and prints an appropriate message, either turning the heater **on** or **off**.

Next, a **SimpleReflexAgent class** is created, representing a basic thermostat. It takes a **desired temperature** as input and stores it. The agent has a perceive() method that asks the user to enter the current temperature, and an act() method that determines whether the heater should be **on or off** based on the comparison between the current and desired temperatures. If the room temperature is **higher** than the desired temperature, the heater is **turned off**; otherwise, it remains **on**.

Finally, the program asks the user for the **desired temperature**, creates an instance of SimpleReflexAgent, and uses it to **perceive** the current temperature and take action accordingly. This approach simulates a basic thermostat that reacts to temperature changes.

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