# Simple Reflex Agent - Python Code

This document contains the Python implementation of a Simple Reflex Agent that controls the AC based on room temperatures.

## Python Code:

class SimpleReflexAgent:  
 def \_\_init\_\_(self, temp):  
 self.fixed\_temp = temp  
 self.previous\_action = None   
  
 def sensor(self, temp):  
 self.current\_temp = temp  
   
 def performance(self):  
 action = None  
 if self.current\_temp > self.fixed\_temp:  
 action = "Turn on the AC"  
 else:  
 action = "Turn off the AC"  
 return action  
   
 def actuator(self):  
 action = self.performance()  
 if action != self.previous\_action:   
 print(self.current\_temp, "=> Action:", action)  
 else:  
 print(self.current\_temp, "=> No unnecessary change")  
 self.previous\_action = action   
  
rooms = {  
 "Living Room": 20,  
 "Drawing Room": 22,  
 "Kitchen": 34,  
}  
  
agent = SimpleReflexAgent(16)  
for room, temp in rooms.items():  
 print(room, end=' :\t')  
 agent.sensor(temp)  
 agent.actuator()