Enter initial temperature:  
15  
Enter initial desired temperature:  
25  
  
  
THERMOSTAT: Object initializing...  
HEATING SYSTEM: Data object created. Setting to inactive mode.  
THERMOSTAT: User has provided a new desired temperature of 25  
THERMOSTAT: Current temperature is 15  
THERMOSTAT: The current temperature is too cool, activating heating.  
HEATING SYSTEM: Activating!  
  
  
THERMOSTAT: Initial setup and temperature status complete, system online.  
  
MAIN MENU:  
1 - See system status  
2 - Set temperature goal  
3 - Simulate time passing  
4 - Exit program  
Input choice:  
1  
THERMOSTAT REPORT: Current temperature: 15  
THERMOSTAT REPORT: Desired temperature: 25  
HEATING SYSTEM STATUS: - Active  
  
MAIN MENU:  
1 - See system status  
2 - Set temperature goal  
3 - Simulate time passing  
4 - Exit program  
Input choice:  
3  
THERMOSTAT: Simulating time passing... setting current temperature to desired temperature.  
MAIN MENU:  
1 - See system status  
2 - Set temperature goal  
3 - Simulate time passing  
4 - Exit program  
Input choice:  
1  
THERMOSTAT REPORT: Current temperature: 25  
THERMOSTAT REPORT: Desired temperature: 25  
HEATING SYSTEM STATUS: - Active  
  
MAIN MENU:  
1 - See system status  
2 - Set temperature goal  
3 - Simulate time passing  
4 - Exit program  
Input choice:  
2  
Current temperature is: 25  
Current desired temperature is: 25  
Enter new desired temperature:  
30  
THERMOSTAT: User has provided a new desired temperature of 30  
THERMOSTAT: Current temperature is 25  
THERMOSTAT: The current temperature is too cool, activating heating.  
HEATING SYSTEM: Activating!  
  
MAIN MENU:  
1 - See system status  
2 - Set temperature goal  
3 - Simulate time passing  
4 - Exit program  
Input choice:  
1  
THERMOSTAT REPORT: Current temperature: 25  
THERMOSTAT REPORT: Desired temperature: 30  
HEATING SYSTEM STATUS: - Active  
  
MAIN MENU:  
1 - See system status  
2 - Set temperature goal  
3 - Simulate time passing  
4 - Exit program  
Input choice:  
3  
THERMOSTAT: Simulating time passing... setting current temperature to desired temperature.  
MAIN MENU:  
1 - See system status  
2 - Set temperature goal  
3 - Simulate time passing  
4 - Exit program  
Input choice:  
1  
THERMOSTAT REPORT: Current temperature: 30  
THERMOSTAT REPORT: Desired temperature: 30  
HEATING SYSTEM STATUS: - Active  
  
MAIN MENU:  
1 - See system status  
2 - Set temperature goal  
3 - Simulate time passing  
4 - Exit program  
Input choice:  
2  
Current temperature is: 30  
Current desired temperature is: 30  
Enter new desired temperature:  
13  
THERMOSTAT: User has provided a new desired temperature of 13  
THERMOSTAT: Current temperature is 30  
THERMOSTAT: The current temperature is too hot, disabling heating.  
HEATING SYSTEM: Shutting down  
  
MAIN MENU:  
1 - See system status  
2 - Set temperature goal  
3 - Simulate time passing  
4 - Exit program  
Input choice:  
1  
THERMOSTAT REPORT: Current temperature: 30  
THERMOSTAT REPORT: Desired temperature: 13  
HEATING SYSTEM STATUS: - Inactive  
  
MAIN MENU:  
1 - See system status  
2 - Set temperature goal  
3 - Simulate time passing  
4 - Exit program  
Input choice:  
3  
THERMOSTAT: Simulating time passing... setting current temperature to desired temperature.  
MAIN MENU:  
1 - See system status  
2 - Set temperature goal  
3 - Simulate time passing  
4 - Exit program  
Input choice:  
2  
Current temperature is: 13  
Current desired temperature is: 13  
Enter new desired temperature:  
10  
THERMOSTAT: User has provided a new desired temperature of 10  
THERMOSTAT: Current temperature is 13  
THERMOSTAT: The current temperature is too hot, disabling heating.  
HEATING SYSTEM: Shutting down  
  
MAIN MENU:  
1 - See system status  
2 - Set temperature goal  
3 - Simulate time passing  
4 - Exit program  
Input choice:  
1  
THERMOSTAT REPORT: Current temperature: 13  
THERMOSTAT REPORT: Desired temperature: 10  
HEATING SYSTEM STATUS: - Inactive  
  
MAIN MENU:  
1 - See system status  
2 - Set temperature goal  
3 - Simulate time passing  
4 - Exit program  
Input choice:  
2  
Current temperature is: 13  
Current desired temperature is: 10  
Enter new desired temperature:  
25  
THERMOSTAT: User has provided a new desired temperature of 25  
THERMOSTAT: Current temperature is 13  
THERMOSTAT: The current temperature is too cool, activating heating.  
HEATING SYSTEM: Activating!  
  
MAIN MENU:  
1 - See system status  
2 - Set temperature goal  
3 - Simulate time passing  
4 - Exit program  
Input choice:  
3  
THERMOSTAT: Simulating time passing... setting current temperature to desired temperature.  
MAIN MENU:  
1 - See system status  
2 - Set temperature goal  
3 - Simulate time passing  
4 - Exit program  
Input choice:  
4  
THERMOSTAT: Shutting down data object.  
HEATING SYSTEM: Data object destroyed.  
THERMOSTAT: Data object destroyed.