|  |
| --- |
| Timer |
| -frequency: double  -runTime: int |
| +calcFreq(): double  +calcRTime(): int |

**Home Heating Program (UML Diagram)**

|  |
| --- |
| Main |
|  |
| +GUI() |

|  |
| --- |
| Environment |
| -iniTemp(): double |
| +calcTemp(): double |

|  |
| --- |
| Furnace |
| -furnaceType: String  -capacity: double  -efficiency: double  -pilotOn: Boolean  -heating: Boolean |
| +furnaceOn(): int  +furnaceOff(): int  +heatOutput(): double |

1

|  |
| --- |
| GUI |
|  |
| -CalculateButtonListener()  -ExitButtonListener()  -buildPanel()  +toString():String |

|  |
| --- |
| Room |
| -YearBuilt: int  -area: int  -SHC: double  -BLC: double  -iniTemp: double |
| +calcArea(): int  +calcTemp(): double  +calcSHC(): double  +calcBLC(): double |

|  |
| --- |
| Thermostat |
| -thermoSetting: double  -overheat: double |
| +raiseTemp(): double  +lowerTemp(): double  +thermoOn(): int  +thermoOff(): int |

|  |
| --- |
| JFrame |
|  |
|  |

Has a

1

1

Extends

1