**Course Instructor: Cristina Ruiz Martin**



**Assignment II**

**Advance Topics in Software Engineering: Software Development in C**

**Submitted by:**

Mitulkumar Gajera

ID: 101127813

Carleton University

/\*

**dt** 🡪 desired temperature **mt** 🡪 measured temperature

Void startheating (int dt, int mt) {

int randomnumber {array [1,2,3]; return number from array};

}

\*/

**Pre-conditions:**

1. Entered temperature should be in between 160C to 350C.
2. Entered desired temperature **(dt)** should be greater than measured temperature **(mt)**.

**Post-condition:**

1. Measured temperature should reach desired temperature.

**Testing strategy:**

1. If desired temperature < measured temperature at the last cycle of execution, then the random function inside heating function will choose another value.

*Example:* **dt**=280C, **mt**=200C. let’s say **mt** reaches 260C and if random function chooses 3 from the random value so resultant **dt** would be 290C. So instead of execution with value 3, random function will choose another value from the array.

1. After successful execution of the function **dt** = **mt**.