```
* This is the .h file for calculating MRT and OT
    * This code was written entirely by Team 26
     * using formulas found in Literature.
5
6
    #ifndef CALCULATE MRT H
7
    #define CALCULATE MRT H
8
9
   #if ARDUINO >= 100
10
     #include "Arduino.h"
11 #else
12
     #include "WProgram.h"
13 #endif
14
15   class mrt_and_ot {
16
        public:
17
            mrt_and_ot(void);
18
19
            void calculate mrt and ot(float T g, float T a);
20
            float get mrt(void);
21
            float get_ot(void);
22
23
       private:
24
            float calculate_convection_coefficient(float T_g, float T_a);
25
            float h;
            float T_mrt;
26
27
            float T_ot;
28
            float T_a;
29
            float T_g;
           float convection_coefficient;
30
31
32
           const float epsilon = 0.94;
33
            const float diameter = 0.04;
34
            const float diameter to power = pow(diameter, 0.4);
35
            const float kelvin_conversion = 273.15;
36
   };
37
   #endif
38
```