Bellow is my Header File that contains the class HeartRates

```
swyman2501@Knightys-Castle: ~/ECE330/homework3/homework3
                                                                                                                                                                      П
                                                                                                                                                                              X
set_Iname(Iname)
              set_day(day);
set_month(month);
              set_year(year);
set_age(year);
13
14 HeartRates::HeartRates(const HeartRates &h): _fname{h._fname}, _lname{h._lname}, _day{h._day}, _month{h._month},
15 __year{h._year}, _age{h._age} {}
16 //bellow is going to be my function calls for my setters and getters
17 void HeartRates::set_fname(std::string fname) { //this sets first name
        std::cout << "Please enter your first name
        _fname = fname:
24 25 }
   void HeartRates::set_lname(std::string lname) { //this sets last name
        std::cout<< rank table;
std::cin >> lname;
while(lname.size() > 30) {
    std::cout<< "Can not have a last name of over 30 characters please re-enter your name\n";
         _lname = lname;
     oid HeartRates::set_day(int day) {    //sets day
        std::cin >> day;
//below is how I'm making sure that the input is a int and not a char or anything that can break the prog.
while(std::cin.fail()) {
             std::cin.clear();
std::cin.ignore(256, '\n');
45
46
        while(day > 31 || day <= 0) { //not accounting for february or leap year std::cout<<"Error please re-enter the day you were born: ";
48
              std::cin >> day;
         _day = day;
53 void HeartRates::set_month(int month) { //sets month
54 std::cout<<"Please enter the month # you were born: ";
54
55
        std::cin >> month;
        while(std::cin.fail()) {
             std::cout << "Error please re-enter!: ";
              std::cin.clear();
std::cin.ignore(256, '\n');
std::cin >> month;
        while(month > 12 || month <= 0) {
    std::cout<<"Error please re-enter the month # you were born: ";
              std::cin >> month;
        _month = month;
69 void HeartRates::set_year(int year) { //sets year
70 std::cout<<"Please enter the year you were born: ";
        std::cin >> year;
        while(std::cin.fail()) {
              std::cin.clear();
std::cin.ignore(256, '\n');
              std::cin >> year;
        while(year < 1900 || year > 2018) {
std::cout<<"Error please re-enter the year you were born: ";
                                                                                                                                                                           Top
```

Bellow is my main.cpp file (I'm using slate color scheme with monofur text.. yes I installed custom text on my IDE and yes it was a pain to do)

```
swyman2501@Knightys-Castle: ~/ECE330/homework3/homework3
                   yorn; //yes or no
         int yn = 0;

std::cout<< "test!\n"; print statments... the BEST debugging tool

//I needed the above because I tottaly space out, and for got I need yn to have == and not just =

while(yn == 0) { // this while loop is my entire main pretty much.. yn = YesNo which gets adjusted at the end

HeartRates h1;

std::cout<<"Hello!\n" << "Please enter the requested information for this program to calculate your"

</ " target and max heart rate.\n";
           h1.set_fname(h1.fname());
h1.set_lname(h1.lname());
h1.set_month(h1.month());
          20
21
22
24
25
26
27
28
29
31
32
33
34
35
36
37
38
39
40
           std::cin >> yorn; //yes or no
    switch(yorn) {
        case 'Y': //I account for lower and upper in this statement
                        case
                               std::cout<< "\nrestarting!\n\n"; //restarts the loop by not adjusting yn thus sending it back up
                               break;
                        case
                                std::cout<<"Thank you for using this program, we hope that it helped you!" << std::endl;
                               yn++; //adds 1 to yn thus breaking the loop
break;
                        default:
                               std::cout<< "Error in processing request" << std::endl;
goto ask; //here I didn't want to restart the whole while loop but also didn't want to exit
break; // I've used goto statements in 131 much to my instructor's surpise..but they work okay!? XD
            return 0;
45 }
46 //end of main
```

Bellow is my Makefile using the c++ 2017 library