```
Script started on 2024-02-28 22:19:22-06:00 [TERM="xterm-256color" TTY="/dev/pts/0" COLUMNS="252" LINES="58"]
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CS2/Lab/Lab 11[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CS2/Lab/Lab 11[00m$ pwd
/home/jovyan/CS2/Lab/Lab 11
[?2004]
total 16
drwxr-sr-x 3 jovyan users 4096 Feb 28 22:19 [0m[01;34m.[0m
drwxr-sr-x 14 jovyan users 4096 Feb 28 18:06 [01;34m..[0m
-rw-r--r- 1 jovyan users 1696 Feb 28 22:18 grade_compare.cpp
drwxr-sr-x 2 jovyan users 4096 Feb 28 22:19 [01;34m.ipynb_checkpoints[0m
-rw-r--r-- 1 jovyan users
                          0 Feb 28 22:19 Sabin Lab 11.log
Sabin\_Lab[K[K[K[K[K[K[K[K[K[Kgrade\_compare.cpp
[?2004l
    1 /*
    2 Tyler Sabin
    3
       Section 004
    4
       Lab 11
    5
       */
    6
    7
      #include <iostream>
    8 #include <array>
    9 #include <string>
   10
   11 //Declare global variables
   12 const int kMaxSize Arr1{5};
   13 const int kMaxSize_Arr2{5};
   14
   15
      //Define function prototypes
   16
       std::array<double,kMaxSize Arr1> GetGrades();
   17 bool GradesAreSame(std::array <double,kMaxSize Arr1> arr1, std::array <double,kMaxSize Arr2> arr2);
   18
   19
      int main(){
   20
   21
           //Declare array variables & bool variable
   22
           std::array <double,kMaxSize_Arr1> array1{};
   23
           std::array <double,kMaxSize Arr2> array2{};
   24
           bool gradeSame{};
   25
   26
           std::cout << "Getting Student One" << '\n';</pre>
   27
           //Call get grade function to store grades in an array
   28
           array1 = GetGrades();
   29
           std::cout << "Getting Student Two" << '\n';</pre>
   30
           array2 = GetGrades();
   31
           //Call bool function
   32
           gradeSame = GradesAreSame(array1,array2);
   33
           std::cout << '\n';
   34
   35
           if(gradeSame == true){
              std::cout << "Both students have the SAME grades!" << '\n';</pre>
   36
   37
              std::cout << "Both students have the DIFFERENT grades!" << '\n';
   38
   39
   40
   41
   42
           return 0;
   43 }
   44
   45
   46
      std::array<double,kMaxSize Arr1> GetGrades(){
   47
           //Declare local array and variable for grades
   48
           std::array <double,kMaxSize_Arr1> locArray{};
   49
           double tempGrade{};
           //For loop to collect grade and store it in the array index
   50
           for(int i{0}; i < kMaxSize_Arr1; i++){</pre>
   51
              std::cout << "Enter grade: ";</pre>
   52
   53
               std::cin >> tempGrade;
   54
              locArray[i] = tempGrade;
   55
   56
           //Return array
   57
           return locArray;
   58 }
   59
      bool GradesAreSame(std::array <double,kMaxSize Arr1> arr1, std::array <double,kMaxSize Arr2> arr2){
   60
   61
           //Test to see if the arrays are the same
   62
           if(arr1 == arr2){
   63
              return true;
   64
           } else{
   65
               return false;
   66
   67
      }[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CS2/Lab/Lab_11[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CS2/Lab/Lab_11[00m$
g++ -Wall -Wextra -Werror grade_compare.cpp -o compare
```

```
[?20041
[?20041
Getting Student One
Enter grade: 5
Enter grade: 5
Enter grade: 6
Enter grade: 6
Enter grade: 7
Getting Student Two
Enter grade: 5
Enter grade: 5
Enter grade: 6
Enter grade: 6
Enter grade: 7
Both students have the SAME grades!
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CS2/Lab/Lab 11[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CS2/Lab/Lab 11[00m$ ./compare
Getting Student One
Enter grade: 100.00
Enter grade: 98.87
Enter grade: 87.00
Enter grade: 77.98
Enter grade: 33.23
Getting Student Two
Enter grade: 100.00
Enter grade: 97.87
Enter grade: 33.23
Enter grade: 87.00
Enter grade: 77.98
Both students have the DIFFERENT grades!
 [?2004h(base) \ ] 0; jovyan@jupyter-tes4j: \ {\it ~/CS2/Lab/Lab\_11[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CS2/Lab/Lab\_11[00m$ ./compare ]] } ] 0; jovyan@jupyter-tes4j: \ {\it ~/CS2/Lab/Lab\_11[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CS2/Lab/Lab\_11[00m$ ./compare ]] } ] 0; jovyan@jupyter-tes4j: \ {\it ~/CS2/Lab/Lab\_11[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CS2/Lab/Lab\_11[00m$ ./compare ]] } ] 0; jovyan@jupyter-tes4j: \ {\it ~/CS2/Lab/Lab\_11[00m$ ./compare ]} 0; jovyan@ju
Getting Student One
Enter grade: 98.2
Enter grade: 88.3
Enter grade: 77.6
Enter grade: 100.2
Enter grade: 98.1
Getting Student Two
Enter grade: 98.2
Enter grade: 88.3
Enter grade: 77.6
Enter grade: 100.2
Enter grade: 98
Both students have the DIFFERENT grades!
 [?2004h(base) ] 0; jovyan@jupyter-tes4j: ~/CS2/Lab/Lab\_11[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CS2/Lab/Lab\_11[00m$] exitory and the context of the con
[?20041
exit
```

Script done on 2024-02-28 22:22:06-06:00 [COMMAND\_EXIT\_CODE="0"]