## CSCI110 – Fundamentals of Computer Science MT SAC College CSCI110

Lab #	#:1B	
Description:	Problem 1.6 pg 26_	
		_
Due Date:	6-23-2022	
Name:	Brandon Wu	
Grade:	Freshman	
Notes:	Used mac terminal	

```
#include <iostream>
#include <cmath>
using namespace std;
int main()
{
  float first time;
  float second time;
  cout <<"Please input your first time: ";
  cin >> first time;
  cout <<"Please input your second time: ";
  cin >> second time;
  if (first_time < second_time) {</pre>
     int first hours = first time / 100;
     int second_hours = second_time / 100;
     float first_mins = (((first_time / 100) - first_hours) * 100);
     float second mins = (((second time / 100) - second hours) * 100);
     float formatted_diff_mins = ((second_mins / 60) - (first_mins / 60));
     int diff hours = second hours - first hours;
     float elapsed time = (second hours - first hours + formatted diff mins);
     int elapsed_hours = elapsed_time;
     float elapsed mins = round((abs(formatted diff mins)) * 60);
     cout << "Elapsed time is " << elapsed hours << " hours and " << elapsed mins << "
minutes"<< endl;
  }
  else {
     int first hours = first time / 100;
     int second hours = (second time + 2400) / 100;
     float first_mins = (((first_time / 100) - first_hours) * 100);
     float second_mins = ((((second_time + 2400) / 100) - second_hours) * 100);
     float formatted diff mins = ((second mins / 60)) - (first mins / 60);
     float elapsed_time = (second_hours - first_hours + formatted_diff_mins);
     int elapsed hours = elapsed time;
     float elapsed mins = round(abs(formatted diff mins) * 60);
     cout << "Elapsed time is " << elapsed hours << " hours and " << elapsed mins << "
minutes"<< endl;
  }
  system("pause");
  return 0;
}
```

```
Brandons-Air-2:Project1 brandonwus cd "/Users/brandonwu/Project1/Labl/" && g++ Lab18.cpp -o Lab18 && "/Users/brandonwu/Project1/Lab1/"Lab18
Please input your first time: 0900
Please input your forond time: 1730
Elapsed time is 8 hours and 30 minutes
sh: pause: command not found
Brandons-Air-2:Lab1 brandonwus cd "/Users/brandonwu/Project1/Lab1/" && g++ Lab18.cpp -o Lab18 && "/Users/brandonwu/Project1/Lab1/"Lab18
Please input your first time: 1730
Please input your first time: 1730
Please input your second time: 0900
Elapsed time is 15 hours and 30 minutes
sh: pause: command not found
Brandons-Air-2:Lab1 brandonwus

### Please input your first time: 1730
### Please input you
```