// Assignment1.cpp : This file contains the 'main' function. Program execution begins and ends there.

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//Goal: Calculate hours worked from a .txt file with logged hours and dates.

// Calculate the monthly sub-totals as well.

//Preprocessors Directives:

#include "pch.h"

#include <iostream>

#include <fstream>

#include <string>

using namespace std;

//Prototypes:

void totalHoursWorked(int totalHours, string &month, int &num);

void monthlyHours(string &month, int &num);

//Main Function:

int main()

{

ifstream inFile("C:\\Users\\coroz\\Desktop\\myloghours.txt");

if (!inFile)

{

cout << "The file: myloghours.txt was unable to be opened." << endl;

return 0;

}

int num;

string month;

int totalHours = 0;

int count = 0;

totalHoursWorked(totalHours, month, num);

monthlyHours(month, num);

inFile.close();

return 0;

}

//User-defined Methods:

void totalHoursWorked(int totalHours, string &month, int &num)

{

month = "";

totalHours = 0;

int count = 0;

int monthlyHours = 0;

ifstream inFile("C:\\Users\\coroz\\Desktop\\myloghours.txt");

if (!inFile)

{

cout << "The file: myloghours.txt was unable to be opened." << endl;

}

while (inFile >> month >> num)

{

totalHours = num + totalHours;

}

cout << "Total hours: " << totalHours << endl;

inFile.close();

}

void monthlyHours(string &month, int &num)

{

int sum;

int num2;

//num2 = stoi(month);

ifstream inFile("C:\\Users\\coroz\\Desktop\\myloghours.txt");

if (!inFile)

{

cout << "The file: myloghours.txt was unable to be opened." << endl;

}

while (inFile >> month >> num)

{

string month2 = month.substr(0, 3);

while (inFile >> month2 >> num2)

{

if (month.substr(0,3) == month2.substr(0,3))

{

sum = num + num2;

num += num2;

}

else if (month.substr(0,3) != month2.substr(0,3))

{

cout << month.substr(0,3) << " " << sum << endl;

sum = 0;

num = num2;

month = month2;

}

}

cout << month.substr(0, 3) << " " << sum << endl;

}

inFile.close();

}

