

Dry Run (Hw1)

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Problem.

This assignment is designed to test out your coding process and provide an opportunity to practice creating your source file. Your task is to display "Hello World - my name is " whatever your name is. Your program should compile cleanly and execute without any errors.

Requirements.

- Correctly compile your program.
- Successfully execute your program and generate correct results.
- Check the plagiarism score to make sure it's low enough (Close to green). If your score is not green, you need to examine to plagiarism report and find out why. Discuss your findings and conclusions in a comment in the Canvas assignment.
- Use white-space and comments to make your code more readable.
- Program activities are split into logical 'chunks' or paragraphs. I'm expecting paragraphs for input, processing (if any), and output operations.
- Show me your latest program output by coping your program output onto the bottom of your source file and commenting it out so your program will still run. I will still compile and execute your program, but I have seen way to many students submit noncompiling code. I'm hoping this will force students to spot that problem before they turn it in.

Specification Overview.

These are the features your client (me) is asking for in your code. You need to do 2 things to complete each specification: 1) actually code the task, 2) document what you did with the appropriate specification comment. If you do not do either of these things, you will not get any credit for that task. Note: sometimes you will get comments stacking on top of each other - that's OK .You will notice the first line of the specifications looks like a C++ comment. That's so you can copy and paste these into your code. Don't worry about plagiarism for these comments. You will also notice the comments have letters associated with them. That's to give you a rough indicator of how difficult that feature is to implement.

These are general requirements for the assignment and apply to the entire homework, rather than one specific part. These always apply to all your assignments.

You want to comment when these specifications begin because I will be looking for them. You want me to find them.

Specifications.

// Specification C1 – Program Greeting

Create your own program greeting and display it to the console. This should always be the first thing your program displays. You can put anything you want here, but it's common to list the program name, your name and the current date. Use a comment with the words ProgramGreeting (no space) 1 in the line above this code to make it easy to find.

When you see something bold in the comments section you need to make sure you type it exactly as it appears. I will explicitly look for bold text in your code.

// Specification C2 – Source File Header

Put a header on the very top of your source file. First line program name.cpp, second line your name and this class, third line assignment due date. I'll look for comments like this:

```
// dryRun.cpp 2  
// Pat Jones, CISP 413  
// 12/34/56
```

It's OK to put this specification comment at line 1 for this assignment. In future assignments this will still be required, but it will no longer appear as a specification.

// Specification B1 – Variables

Declare and initialize 1 of each of the following types of variables: int, float, double, boolean, char, and string. You can use whatever values to initialize them you wish.

// Specification B2 – Output Variables

Display on the console all the variables you created in B1 - their names and their values.

// Specification A - Reflection

Using the following prompts, generate feedback on your assignment using ChatGPT. Often shift-return will generate a blank line without submitting the prompt.

Analyze this student's code in relationship to commonly accepted C++ programming practices and standards. This is the first assignment in an introductory C++ programming class. This is the first time the student has created a program. Indicate if this code is likely to compile or run correctly.

<Copy and Paste your source code here>

Review and reflect on the feedback the system gives you. Write this up in 250 words or more. Include your write up as a block comment at the bottom of your assignment. **Also indicate the number of words in your write up, as well.** You may wish to:

Comment on the overall quality of the assessment. Was it accurate? Did it make sense? Did you find it useful? Does it align with what you coded? You may wish to discuss one or two main themes the AI identified in relationship to your coding.

Memorialize your reaction to the feedback. Do you find it easier to get feedback from a computer or a human? Was there any advice in particular which was helpful to you? Can you think of a better prompt to generate the information you need?

I am NOT interested in the feedback from the generative AI. Do NOT copy and paste that in your program. I am interested in your thoughts about it however. You are free to use multiple prompts as well. I do not use this tool to grade your assignments - it's not accurate enough for my purposes. I will not grade the quality of your content. I want this to be useful to you and not worry about saying something "grade worthy". I suggest this is the last step you perform before you turn in your assignment. You can do it earlier if you wish, but the feedback will not be as useful. You are free to revise your code in light of the feedback you get, but remember, the assignment is what I grade to, not ChatGPT. Make sure you confirm your code runs before you turn it in.