CIS 121 Sequence Problems

Develop an IPO Chart and C++ code the following problems. Upload the IPO and code files to Blackboard.

Save your files with the convention PS2P1, PS2P2 etc. PS1P1 is Problem set 1, program 1 etc.

1. Ask the user to enter first and last name. Display a message “Hello [last name]”.

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| Input | Process | Output |
| first\_name | First we have to specify that these things are strings | Hello Ray Mon. |
| last\_name | We will use cout to tell them “enter you’re first and last” |  |
|  | Then cin << string to take in theyre answers |  |
|  | And then do another cout to say “hello first\_name last\_name.” |  |
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1. Allow the user to enter two real numbers. Compute and display the sum or the two numbers.

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| Input | Process | Output |
| Number1 | We get the sum of these by doing the + operation | Sum of two numbers |
| Number2 | We ask the user for both numbers then state that sum is the product of those two numbers that they said and cout the sum |  |
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1. Ask the user to enter last name and score. Format a message that says “[last name] has a score

of [score]”.

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| Input | Process | Output |
| last\_name | Cout to tell them to enter names and score | “(last name) has a score  of (test\_score)” |
| test\_score | Cin to take the names and score |  |
|  | Cout to display final message |  |
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1. Allows the user to enter three integers. Compute the result = (n1 + n2) \* n3. Display the result.

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| Input | Process | Output |
| Int\_number1 | First we’ll ask for theyre numbers | (n1 + n2) \* n3 which will get the x |
| Int\_number2 | Then add the first two numbers (n1 + n2) |  |
| Int\_number3 | Then add a multiplied operation including n3 |  |
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1. Ask the user to enter two real numbers. Compute and display the sum, product and difference of the numbers.

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| Input | Process | Output |
| N1 | Ask for both numbers, | Sum and difference of both number |
| N2 | Cout << the sum of both num |  |
|  | Cout << the difference of both num |  |
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