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]”.

|  |  |  |
| --- | --- | --- |
| Input | Process | Output |
| Last name | Format message  Msg = “hello “ + lname | Hello LASTNAME |
| First name |  |  |
|  |  |  |

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 |
| First number | Format sum  Sum = firstnum + secnum  “the sum is “ << sum | The sum is SUM |
| Second Number |  |  |
| sum |  |  |

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 | Format  Msg = last name + “ has a score of ” + score | LASTNAME has a score of SCORE |
| Score |  |  |
|  |  |  |

1. Allows the user to enter three integers. Compute the result = (n1 + n2) \* n3. Display the result.

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| --- | --- | --- |
| Input | Process | Output |
| First Number | Give result to equation shown above | Total = RESULT |
| Second Number | Total = (n1 + n2) \* n3 |  |
| Third number |  |  |
| Result |  |  |

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 |
| First Number | Provide Sum of n1 and n2  Sum = n1 + n2 | Sum = n1 + n2  Dif = n1 – n2  Prod = n1 \* n2 |
| Second Number | Provide difference of n1 and n2  Dif = n1 – n2 |  |
| Sum | Provide product of n1 and n2  Prod = n1 \* n2 |  |
| Product |  |  |
| Difference |  |  |