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 |
|  |  |  |
| Firstname | Format message  Msg = “Hello” + firstname + “ “ + lastname | mgs |
| Lastname |  |  |
|  |  |  |
|  |  |  |

1. Allow the user to enter two real numbers. Compute and display the sum or the two numbers.

|  |  |  |
| --- | --- | --- |
| Input | Process | Output |
|  |  |  |
| number1 | Calculate sum  Sum =number 1 + number2 | Sum |
| number2 |  |  |
|  |  |  |
|  |  |  |

1. Ask the user to enter last name and score. Format a message that says “[last name] has a score of [score]”.

|  |  |  |
| --- | --- | --- |
| Input | Process | Output |
|  |  |  |
| Lastname | Format message  Msg = “lastname” + “has a score of [score]” | msg |
| score |  |  |
|  |  |  |
|  |  |  |

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

|  |  |  |
| --- | --- | --- |
| Input | Process | Output |
|  |  |  |
| N1 | Calculate result  Result = (n1 +n2) \* n3 | Result |
| N2 |  |  |
| N3 |  |  |
|  |  |  |

1. Ask the user to enter two real numbers. Compute and display the sum, product and difference of the numbers.

|  |  |  |
| --- | --- | --- |
| Input | Process | Output |
|  |  |  |
| Number1 | Calculate sum product difference  Sum= number1 + number2  Product = number1 \* number2  Difference= number1 – number2 | Sum |
| Number2 |  | Product |
|  |  | difference |
|  |  |  |