

## 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
First Name	Set string for var Firstname Set string for var lastname Create message to please enter first and last name User enters both var Output message	Hello Lastname var
Last name		
Message		

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

Input	Process	Output
Number 1	Assign prompt to enter two numbers Assign Var N1 Assign Var N2 Compute sum of N1 + N2	Sum of N1 + N2
Number 2		

3. Ask the user to enter last name and score. Format a message that says "[last name] has a score of [score]".

Input	Process	Output
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Last name	String lastname var Set number var Enter prompt for user to enter last name and number var Message with var inputs	(Last name), "has a score of" , N var
Has a score of		
N		

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

Input	Process	Output
N1	Assign var N1 Assign Var N2 Assign Var N3 Compute (N1+ N2) Compute sum of (N1+N2) times N3	Result of entire equation
N2		
N3		

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

Input	Process	Output
N1	Assign Var N1 Assign Var N2 Compute $N1 + N2$ Compute $N1 \times N2$ Compute $N1 - N2$	Total Sum Total product Total Difference
N2		