Pair Programming 1 Activities

* **Always use the pair programming tests to ensure your program works properly.**
* **Take a screen shot with a white background of each execution in the tests.**
* **Download the source code file for inclusion in the turn in document.**
* **Turn in pair programming activities using the pair programming turn in document.**
* **It is each individual’s responsibility to turn in the assignment and pair programming is graded individually so make sure you share the work you and your partner did together as you go.**
* **Do not share work with your partner that you did not do together.**
* **You can only earn 50% of pair programming points if you do not work with your partner.**
* **Make sure you have your partner’s name, username and contact information such as Pellissippi WebMail.**

1a. (5 points) Type in the following program in a file called pp1a.cpp that sums two integers and prints this sum. Compile, execute and test this program with the first Pair Programming 1 test case.

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| /\*  \* File: pp1a.cpp  \* Author: \*write your name here\*  \* This program gets 2 integers from the user, adds them and displays the sum  \*/  #include <iostream>  int main()  {  int number1; // first and second integers to add  int number2;  int sum; // sum of number1 and number2  // Get numbers from user  std::cout << “Enter first number: “;  std::cin >> number1;  std::cout << “Enter second number: “;  std::cin >> number2;  // add numbers and print the sum  sum = number1 + number2;  std::cout << “Sum: “ << sum << std::endl;  return( 0 );  } |

Modify this program (do not create a new program) so that it:

* Subtracts the two numbers and prints the difference
* Multiplies the two numbers and prints the product
* Divides the two numbers and prints the quotient

Use the pair programming test cases to test your program. Make corrections if the program output does not match the tests. Capture screen shots of each correct execution.

1b. (5 points) Write a C++ program in a file called pp1b.cpp that calculates the force (in newtons) of an object given its mass (in kg) and acceleration (in meters per second2). Include a file comment header and inline comments. Indent properly. Make sure to use meaningful variable names. Compile and execute the program comparing results to tests. Make corrections if the program output does not match the tests. Capture screen shots of each correct execution.