

```
1 *****
2 * PROGRAMMED BY : Blake Allard & Cade Coxon
3 * CLASS          : CS1A
4 * SECTION        : MW: 8a
5 * LAB #8         : Intro to Programming
6 *****
7
8 Enter the first integer: 32
9 Enter the second integer: 41
10
11 32 + 41 = 73
12
13
14 Enter the first integer: 24
15 Enter the second integer: 1258
16
17 24 + 1258 = 1282
18
19
20 Enter the first integer: 34
21 Enter the second integer: 563
22
23 34 + 563 = 597
```

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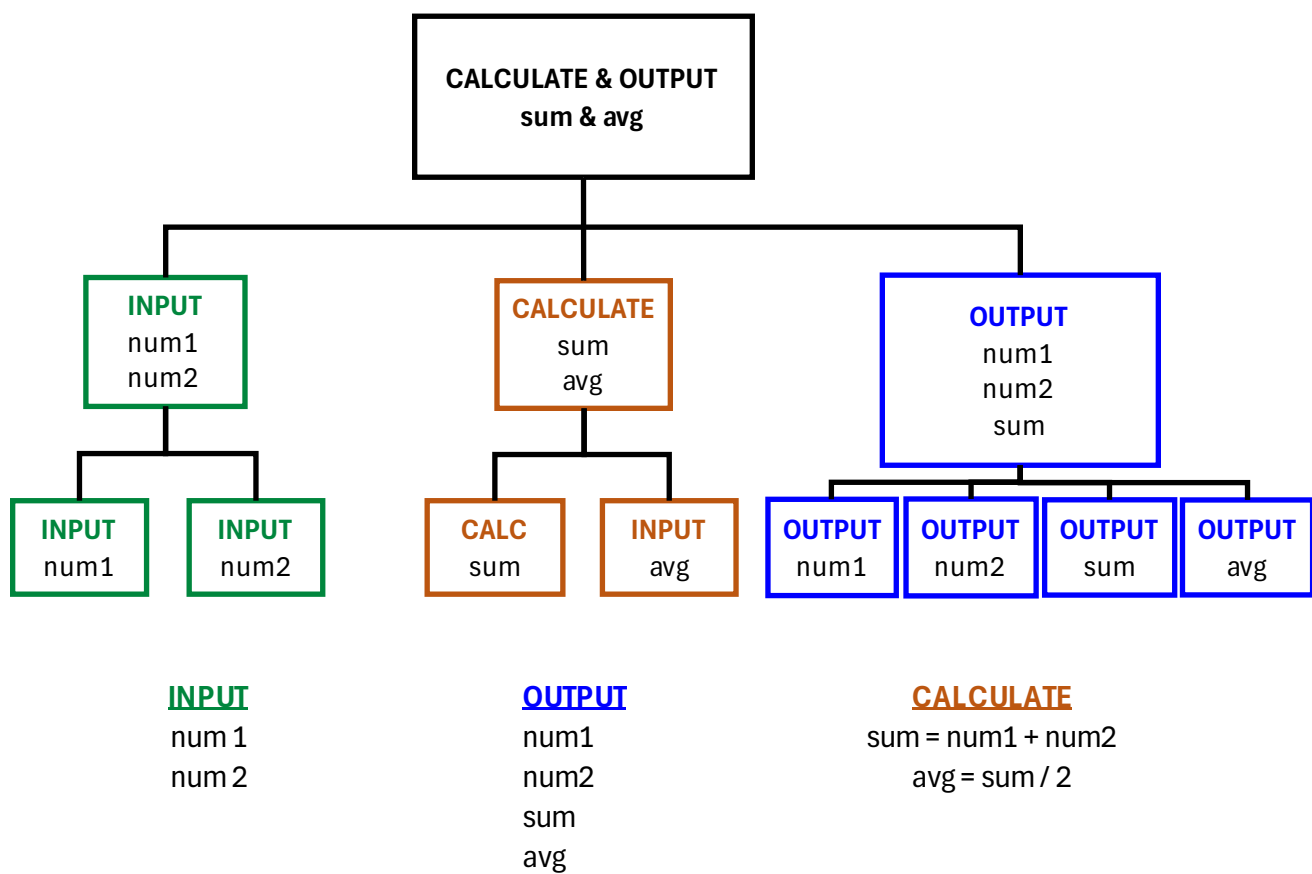
1  /*****
2  * AUTHOR   : BLAKE ALLARD , CADE COXON
3  * STUDENT ID: 358888 , 1227003
4  * LAB #8   : Introduction to Programming
5  * CLASS    : CS1A
6  * SECTION  : M/W 8AM
7  * DUE DATE : 10/08/24
8  *****/
9  #include <iostream>      /* cout, cin */
10 #include <iomanip>        /* setw, setprecision */
11
12 using namespace std;
13
14 /*****
15 * INTRO TO PROGRAMMING
16 *-----
17 * This program will read in two values and output the sum.
18 *-----
19 * INPUT:
20 * firstNum - First value to be summed.
21 * secondNum - Second value to be summed.
22 *
23 * OUTPUT:
24 * sum - The sum of the two values input.
25 *****/
26
27 int main()
28 {
29     /*****
30     * CONSTANTS
31     *-----
32     * OUTPUT - USED FOR CLASS HEADING
33     *-----
34     * PROGRAMMER : Programmer's Name
35     * CLASS : Student's Course
36     * SECTION : Class Days and Times
37     * LAB_NUM : Lab Number (specific to this lab)
38     * LAB_NAME : Title of the Lab
39     *****/
40
41     const char PROGRAMMER[26] = "Blake Allard & Cade Coxon";
42     const char CLASS[5] = "CS1A";
43     const char SECTION[7] = "MW: 8a";
44     const int LAB_NUM = 8;
45     const char LAB_NAME[21] = "Intro to Programming";
46
47     int firstNum;          // IN & CALC, OUT - first value to sum
48     int secondNum;        // IN & CALC, OUT - second value to sum
49     int sum;              // CALC & OUT - sum of 2 integers input
50
51     /*****
52     * OUTPUT - Class Heading
53     *****/
54     cout << left;
55     cout << "*****\n";
56     cout << "* PROGRAMMED BY : " << PROGRAMMER << endl;
57     cout << "* " << setw(14) << "CLASS" << ": " << CLASS << endl;
58     cout << "* " << setw(14) << "SECTION" << ": " << SECTION << endl;
59     cout << "* LAB #" << setw(9) << LAB_NUM << ": " << LAB_NAME << endl;
60     cout << "*****\n\n";
61     cout << right;
62
63     /*****
64     * INPUT - reads in two inputs from the user (firstNum & secondNum)
65     *****/
66     cout << "Enter the first integer: ";
67     cin >> firstNum;
68
69     cout << "Enter the second integer: ";
70     cin >> secondNum;
71
72     /*****
73     * PROCESSING - Calculates the sum of the two inputs
74     *****/
75     sum = firstNum + secondNum;
76
77     /*****
78     * OUTPUT - the input values and the sum.
79     *

```

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80     * For example, if firstNum = 32 & secondNum = 41 output will be:
81     *
82     * 32 + 41 = 73
83     *****/
84     cout << endl;
85     cout << firstNum
86         << " + " << secondNum
87         << " = " << sum
88         << endl;
89
90     return 0;
91 }
92
```

Name: Blake Allard , Cade Coxon

Class: M/W 8am



**NAME:** Blake Allard , Cade Coxon

**Class:** M/W 8am

**BEGIN**

**INPUT** num1 = 0

**INPUT** num2 = 0

**CALC** sum = num1 + num2

**CALC** avg = sum / 2

**OUTPUT** num1

**OUTPUT** num2

**OUTPUT** sum

**OUTPUT** avg

**END**

**VARIABLE LIST:**

**INPUT**

num 1

num2

**OUTPUT**

sum

avg

**PROCESSING**

<none>

```
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3 * CLASS          : CS1A
4 * SECTION        : MW: 8a
5 * LAB #8         : Intro to Programming
6 *****
7
8 Enter the first integer: 32
9 Enter the second integer: 41
10
11 32 + 41 = 73
12 The average is: 36.50
13
14
15 Enter the first integer: 24
16 Enter the second integer: 1258
17
18 24 + 1258 = 1282
19 The average is: 641.00
20
21
22 Enter the first integer: 34
23 Enter the second integer: 563
24
25 34 + 563 = 597
26 The average is: 298.50
27
```

```

1  /*****
2  * AUTHOR   : BLAKE ALLARD , CADE COXON
3  * STUDENT ID: 358888 , 1227003
4  * LAB #8   : Introduction to Programming
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19 * INPUT:
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21 * secondNum – Second value to be summed.
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23 * OUTPUT:
24 * sum – The sum of the two values input.
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44     const int LAB_NUM = 8;
45     const char LAB_NAME[21] = "Intro to Programming";
46
47     int firstNum;      // IN & CALC, OUT – first value to sum
48     int secondNum;     // IN & CALC, OUT – second value to sum
49     int sum;           // CALC & OUT – sum of 2 integers input
50     float avg;         // CALC & OUT – avg of 2 integers input
51
52     /*****
53     * OUTPUT – Class Heading
54     * -----
55     cout << left;
56     cout << "*****\n";
57     cout << "* PROGRAMMED BY : " << PROGRAMMER << endl;
58     cout << "* " << setw(14) << "CLASS" << ": " << CLASS << endl;
59     cout << "* " << setw(14) << "SECTION" << ": " << SECTION << endl;
60     cout << "* LAB #" << setw(9) << LAB_NUM << ": " << LAB_NAME << endl;
61     cout << "*****\n\n";
62     cout << right;
63
64     /*****
65     * INPUT – reads in two inputs from the user (firstNum & secondNum)
66     * -----
67     cout << "Enter the first integer: ";
68     cin >> firstNum;
69
70     cout << "Enter the second integer: ";

```

```
71     cin  >> secondNum;
72
73     /*****
74     * PROCESSING – Calculates the sum of the two inputs
75     *               – Calculates the avg of the two inputs
76     *****/
77     sum = firstNum + secondNum;
78     avg = sum / 2.0;
79
80     /*****
81     * OUTPUT – the input values, the sum, and the avg
82     *
83     * For example, if firstNum = 32 & secondNum = 41 output will be:
84     *
85     * 32 + 41 = 73
86     * The average is: 36.50
87     *****/
88     cout << endl;
89     cout << firstNum
90          << " + "          << secondNum
91          << " = "          << sum
92          << endl;
93     cout << fixed          << setprecision(2);
94     cout << "The average is: " << avg
95          << endl;
96
97     return 0;
98 }
99
```