

```
1 *****
2 *   PROGRAMMED BY : Carlos Aguilera
3 *   CLASS         : CS1B
4 *   SECTION       : MW: 7:30p - 9:50p
5 *   LAB #1        :
6 *****
7
8
9 Input the first value (enter -999 to exit)? 5
10 Input second value?                        25
11
12 The sum is:      30
13 The product is: 125
14
15 Input the first value (enter -999 to exit)? -12
16 Input second value?                        100
17
18 The sum is:      88
19 The product is: -1200
20
21 Input the first value (enter -999 to exit)? -999
```

```
1 #ifndef HEADER_H_
2 #define HEADER_H_
3 #include <iostream>
4 #include <iomanip>
5
6 void heading();
7
8 #endif
```

```

1 #include "../include/header.h"
2 /*****
3  * AUTHOR      : Carlos Aguilera
4  * STUDENT ID  : 1152562
5  * LAB #8      : Pointers
6  * CLASS       : CS1B
7  * SECTION     : M-W
8  * DUE DATE    : 03.28.22
9  *****/
10
11 /*****
12  * Title: Lab Pointers
13  * -----
14  * FUNCTION:
15  *   This program takes two numbers and outputs the sum of those numbers
16  *   & outputs the product of the two, both numbers are being accessed by
17  *   pointers
18  * -----
19  * Data Table
20  * -----
21  * int val1 {};
22  * int *ptrVal = &val1; IN & CALC - get input and get product and sum
23  * int *ptrNew = new int; IN & CALC - get input and get product and sum
24  *****/
25 int main() {
26     int val1 {};
27     int *ptrVal = &val1;
28     int *ptrNew = new int;
29     heading();
30
31     std::cout << std::left;
32     do {
33         std::cout << std::setw(45) << "\nInput the first value (enter -999 to
34         exit)?";
35         std::cin >> *ptrVal;
36         std::cin.ignore(10, '\n');
37         if (*ptrVal != -999) {
38             std::cout << std::setw(43) << "Input second value?";
39             std::cin >> *ptrNew;
40             std::cin.ignore(10, '\n');
41             std::cout << std::setw(17) << "\nThe sum is:" << *ptrVal + *ptrNew <<
42             "\n";
43             std::cout << std::setw(16) << "The product is:" << *ptrVal * *ptrNew
44             << "\n";
45         }
46     } while (*ptrVal != -999);
47     std::cout << std::right;
48
49     delete ptrNew;
50 }

```

```

1 #include "../include/header.h"
2
3 void heading() {
4
5     /*****
6     * CONSTANTS
7     * -----
8     * OUTPUT - USED FOR CLASS HEADING
9     * -----
10    * PROGRAMMER : Programmer's Name
11    * CLASS      : Student's Course
12    * SECTION    : Class Days and Times
13    * LAB_NUM    : Lab Number (specific to this lab)
14    * LAB_NAME   : Title of the Lab
15    *****/
16    const char PROGRAMMER[] = "Carlos Aguilera";
17    const char CLASS[]      = "CS1B";
18    const char SECTION[]    = "MW: 7:30p - 9:50p";
19    const int LAB_NUM       = 1;
20    const char LAB_NAME[]   = "";
21
22    std::cout << std::left;
23    std::cout << "*****\n";
24    std::cout << "*   PROGRAMMED BY : " << PROGRAMMER << std::endl;
25    std::cout << "*   " << std::setw(14) << "CLASS" << ": " << CLASS <<
std::endl;
26    std::cout << "*   " << std::setw(14) << "SECTION" << ": " << SECTION <<
std::endl;
27    std::cout << "*   LAB #" << std::setw(9) << LAB_NUM << ": " << LAB_NAME <<
std::endl;
28    std::cout << "*****\n\n";
29    std::cout << std::right;
30 }

```