

```
1 //
2 //
3 // This is the CPTN230 A1 Application Source Code File
4 //
5 // Hal Bettle
6 // 30 August 2008
7 //
8 //
9
10 #include <iostream>
11 #include <iomanip>
12 using namespace std;
13
14 #include "CPTN230A1class.h"
15
16 int calculate_results(Numbers *);
17
18 int main(int argc, char *argv[])
19 {
20     int j = MAX_SIZE,
21         k = 0;
22
23     Numbers my_numbers;
24
25     Numbers *the_numbers = &my_numbers;
26
27     cout << "Welcome to the CPTN230 Assignment 1 Application.\n" << endl;
28
29     cout << "Please enter "
30         << j
31         << " integers at the prompt"
32         << endl
33         << "and end each one by pressing the \"Enter\" key."
34         << endl;
35
36     j = 0;
37     while (j < MAX_SIZE)
38     {
39         cout << "Enter Integer " << j + 1 << ": " << flush;
40         cin >> k;
41         my_numbers.Set_an_int(j, k);
42         j++;
43     }
44
45     cout << endl;
46
47     my_numbers.Display_the_numbers();
48
49     cout << "The 3rd number was "
50         << my_numbers.Get_an_int(2)
51         << '.'
52         << endl
53         << endl;
54
55     if ( calculate_results(the_numbers) )
56     {
57         my_numbers.Display_the_results();
58     }
59     else
60     {
61         cout << "Error in call to calculate_results." << endl;
62         exit(1);
63     }
64
65     cout << endl;
66 }
```

```
67     cout << "Thank you for using the CPTN230 Assignment 1 Application." << endl;
68
69     return 0;
70 }
71
72 int calculate_results(Numbers *generate_results)
73 {
74     generate_results->Do_the_math();
75     return 1;
76 }
77
```