```
1 #include <iostream>
 2 #include <iomanip>
3 #include <map>
4 #include <cmath>
 5 #include <string>
7 using namespace std;
8
9
10 void user info() {
11
      cout << "\tAuthor: James Abreu." << endl;</pre>
      cout << "\t" << __DATE__ << endl;
12
      cout << "\t" << __TIMESTAMP__ << endl;
13
14
      cout << endl;
15 }
16
17 int main() {
user_info();
19
     map <string, float>items;
20
     float monthly budget{0};
21
     cout << "Enter Monthly Budget: ";
22
     cin >> monthly budget;
23
24
     float total{0};
25
     float expenses{0};
26
     string item name;
27
     cout << "Enter -1 to exit" << endl;
28
     int current item {0};
29
     do {
30
         cout << "Enter expense: ";
31
          cin >> expenses;
32
          if (expenses == -1) { continue; }
33
          cout << "Name of product: ";
34
          cin.ignore();
35
          getline(cin, item name);
36
          items[item name] = expenses;
37
          total += expenses;
38
     } while (expenses != -1);
39
40
     float diference = abs(total - monthly budget);
41
      if (total < monthly budget) {</pre>
42
          cout << "Your expenses were less than the monthly budget by: ";
43
     }else if (total > monthly_budget) {
44
          cout << "Your expenses were more than the monthly budget by: ";</pre>
45
      }else {
46
          cout << "Your expenses break even: ";</pre>
47
48
49
      cout << "$" << setprecision(2) << fixed << diference << endl;</pre>
50
      cout << "Total Expenses: $" << setprecision(2) << fixed << total << endl;</pre>
51
      cout << "Monthly budget: $" << setprecision(2) << fixed << monthly budget</pre>
52
     cout << "Budget Left: $" << setprecision(2) << fixed << monthly budget -</pre>
 total << endl;
53
54 // Range base loops
55
      cout << endl << "Items: " << endl;</pre>
56
       for(const auto& item: items) {
57
          cout << item.first << ": $" << item.second << endl;</pre>
58
```

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59	return 0;
60 }	