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1  #include <iostream>
2  #include <cstdlib>
3  using namespace std;
4
5  const int m = 50; // maximum no of items
6
7  class items
8  {
9  private:
10     int itemCode[m];
11     float itemPrice[m];
12     int count;
13
14 public:
15     items()
16     // constructor to initialise count
17     {
18         count = 0;
19     }
20
21     void getItem()
22     {
23         cout << "Enter the item code: ";
24         cin >> itemCode[count]; // read item code from user
25         cout << "Enter item cost: ";
26         cin >> itemPrice[count]; // read item price for the code
27         count++; // increment
28     }
29
30     void displaySum()
31     // function to calculate the total cost of the items and displays cost
32     {
33         float sum = 0;
34         for (int i = 0; i < count; i++)
35         {
36             sum += itemPrice[i];
37         }
38         cout << "Total Cost: " << sum << endl;
39     }
40
41     void remove()
42     // finds the item and removes it
43     {
44         int a;
45         cout << "Enter item code: ";
46         cin >> a;
47         for (int i = 0; i < count; i++)
48         {
49             if (itemCode[i] == a)
50             {
51                 for (int j = i; j < count - 1; j++)
52                 {
53                     itemCode[j] = itemCode[j + 1];
54                     itemPrice[j] = itemPrice[j + 1];
55                 }
56                 count--; // decrease and reflect the removal of an item
57                 break;
58             }
59         }
60     }
61
62     void displayItems()
63     // displays items and the prices
64     {
65         cout << "\n Code & Price";
66         for (int i = 0; i < count; i++)

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67     {
68         cout << "\n"
69             << itemCode[i] << "Price: " << itemPrice[i];
70     }
71     cout << "\n";
72 }
73 };
74
75 int main()
76 {
77     items order;
78     int x;
79     do
80     {
81         cout << "\n you can do the following:\n";
82         cout << "Enter Appropriate number";
83         cout << "\n1 : Add an item";
84         cout << "\n2 : Display Total Value";
85         cout << "\n3 : Delete an item";
86         cout << "\n4 : Display all items";
87         cout << "\n5 : Quit";
88         cout << "\nChoice : ";
89         cin >> x;
90
91         switch (x)
92         {
93             case 1:
94                 order.getItem(); // adds items
95                 break;
96             case 2:
97                 order.displayItems(); // displays items
98                 break;
99             case 3:
100                 order.remove(); // removes item
101                 break;
102             case 4:
103                 order.displaySum(); // displays the total summ and amount
104                 break;
105             case 5:
106                 exit(0);
107             default:
108                 cout << "Invalid Option Selected";
109         }
110     } while (x != 5); // continues the loop till the users selected to exit.
111     return 0;
112 }

```