

Midterm	
Midterm Skills Exam	
Course Code: CPE007	Program: Computer Engineering
Course Title: Computer Programming Logic and Design	Date Performed: October 9, 2025
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6. Output

Code 1:

- Screenshot of Code(Readable):

```
1  #include <iostream>
2  #include <cstring>
3
4  using namespace std;
5
6  struct Item {
7      string item_name;
8      int amount;
9      float price;
10 };
11
12 int main () {
13     int x;
14     int total = 0;
15     int GrandTotal;
16     cout << "Enter number of Items sold today (Maximum 10): ";
17     cin >> x;
18
19
20     cout << endl;
21     if (x <= 10) {
22         for (int i = 0; i < x; i++) {
23             Item item[i];
24
25             cout << "Enter Details for item " << i + 1 << ":\n";
26             cout << "Name: ";
27             cin >> item[i].item_name;
28             cout << "Quantity Sold: ";
29             cin >> item[i].amount;
30             cout << "Price: ";
31             cin >> item[i].price;
32             cout << endl;
33         }
34     }
```

```
35     cout << "-----" << endl;
36     cout << "                SALES REPORT                " << endl;
37     cout << "-----" << endl;
38     cout << "Item          Quantity    Price    Total Sales    " << endl;
39     cout << "-----" << endl;
40
41     for (int i = 0; i < x; i++) {
42         Item item[i];
43         total = item[i].price * item[i].amount;
44         GrandTotal += total;
45         cout << item[i].item_name << "\t" << "\t" << item[i].amount << "\t" << item[i].price << "\t" << "    " << total << endl;
46     }
47
48     cout << "-----" << endl;
49     cout << "Grand Total Sales: " << GrandTotal;
50
51     } else if (x > 10) {
52         cout << "Too many items!";
53     }
54     return 0;
55 }
56 }
```

- Output of Code(label and compile ALL possible outputs):

```

Enter number of Items sold today (Maximum 10): 3

Enter Details for item 1:
Name: Bread
Quantity Sold: 20
Price: 25.50

Enter Details for item 2:
Name: Milk
Quantity Sold: 15
Price: 45.00

Enter Details for item 3:
Name: Butter
Quantity Sold: 10
Price: 80.00

-----
                        SALES REPORT
-----
Item           Quantity   Price    Total Sales
-----
Butter           10        80         800
Butter           10        80         800
Butter           10        80         800
-----
Grand Total Sales: 2400
-----
Process exited after 25.48 seconds with return value 3221225477
Press any key to continue . . .

```

7. Supplementary Activity

8. Conclusion

During this midterm I have learnt a lot of skills that enhanced my ability to code in C++, and despite feeling that I was unable to finish the skills exam I feel that my overall ability to code in C++ has increased. Through learning arrays, structures, and loops I was able to create a code that was almost similar to the output that was required by the Skills Exam, I feel that this code has an error during the for loop array and I feel that I could improve if I were to keep on learning on my mistakes