

## Midterm

### Midterm Skills Exam

Course Code: CPE007

Program: Computer Engineering

Course Title: Computer Programming Logic and Design

Date Performed: October 9, 2025

Section: CPE11S1

Date Submitted: 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" << item[i].amount << "\t" << item[i].price << "\t" << "      " << total << endl;
46         }
47
48
49         cout << "-----" << endl;
50         cout << "Grand Total Sales: " << GrandTotal;
51
52     } else if (x > 10) {
53         cout << "Too many items!";
54     }
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