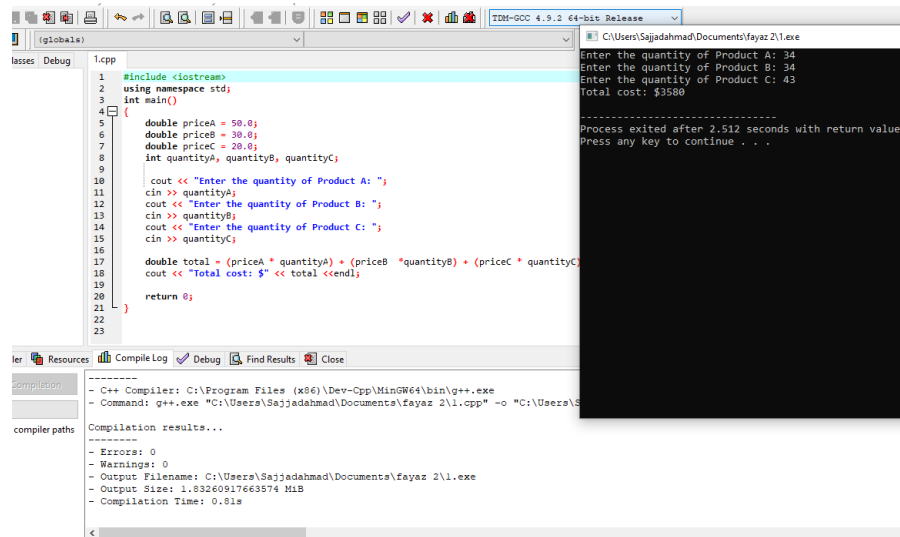


Prepared by Muhammad Fayaz

Submitted to Sir Jawad hussin



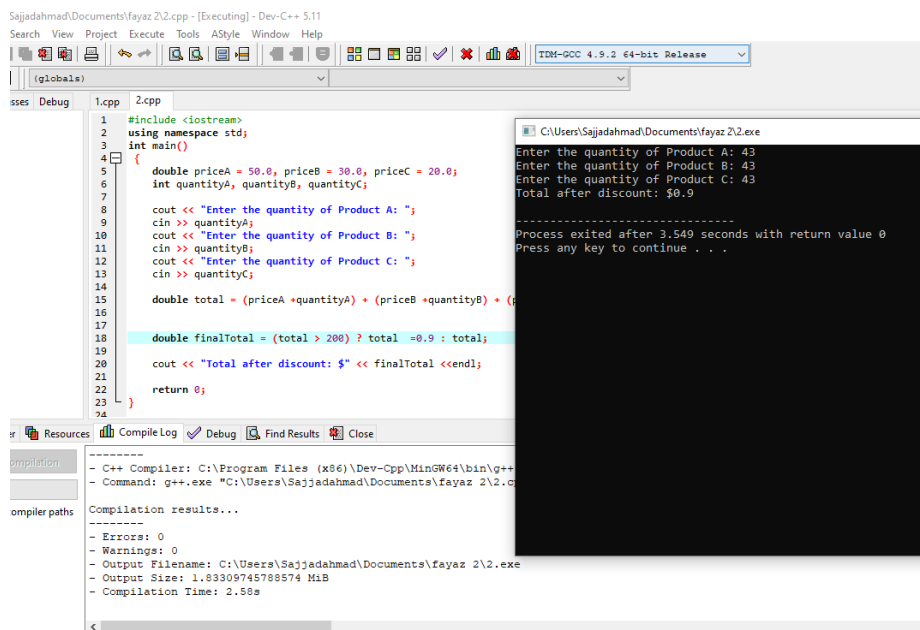
```
1.cpp
1 #include <iostream>
2 using namespace std;
3 int main()
4 {
5     double priceA = 50.0;
6     double priceB = 30.0;
7     double priceC = 20.0;
8     int quantityA, quantityB, quantityC;
9
10    cout << "Enter the quantity of Product A: ";
11    cin >> quantityA;
12    cout << "Enter the quantity of Product B: ";
13    cin >> quantityB;
14    cout << "Enter the quantity of Product C: ";
15    cin >> quantityC;
16
17    double total = (priceA * quantityA) + (priceB * quantityB) + (priceC * quantityC);
18    cout << "Total cost: $" << total << endl;
19
20    return 0;
21 }
22
23
```

Enter the quantity of Product A: 34  
Enter the quantity of Product B: 34  
Enter the quantity of Product C: 43  
Total cost: \$3580

Process exited after 2.512 seconds with return value 0  
Press any key to continue . . .

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Sajjadahmad\Documents\fayaz 2\1.exe
- Output Size: 1.83260917663874 MiB
- Compilation Time: 0.81s



```
2.cpp
1 #include <iostream>
2 using namespace std;
3 int main()
4 {
5     double priceA = 50.0, priceB = 30.0, priceC = 20.0;
6     int quantityA, quantityB, quantityC;
7
8     cout << "Enter the quantity of Product A: ";
9     cin >> quantityA;
10    cout << "Enter the quantity of Product B: ";
11    cin >> quantityB;
12    cout << "Enter the quantity of Product C: ";
13    cin >> quantityC;
14
15    double total = (priceA * quantityA) + (priceB * quantityB) + (priceC * quantityC);
16
17    double finalTotal = (total > 200) ? total * 0.9 : total;
18    cout << "Total after discount: $" << finalTotal << endl;
19
20    return 0;
21 }
22
23
24
```

Enter the quantity of Product A: 43  
Enter the quantity of Product B: 43  
Enter the quantity of Product C: 43  
Total after discount: \$0.9

Process exited after 3.549 seconds with return value 0  
Press any key to continue . . .

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Sajjadahmad\Documents\fayaz 2\2.exe
- Output Size: 1.83309745788574 MiB
- Compilation Time: 2.58s

C:\Users\Sajjadahmad\Documents\fayaz 2\3.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug 1.cpp 2.cpp 3.cpp

```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     double priceA = 50.0, priceB = 30.0, priceC = 20.0;
6     int quantityA, quantityB, quantityC;
7
8     cout << "Enter the quantity of Product A: ";
9     cin >> quantityA;
10    cout << "Enter the quantity of Product B: ";
11    cin >> quantityB;
12    cout << "Enter the quantity of Product C: ";
13    cin >> quantityC;
14
15    double total = (priceA * quantityA) + (priceB * quantityB) + (priceC * quantityC);
16
17    double finalTotal = (total > 200) ? total * 0.9 : total;
18
19    double shipping = (finalTotal < 150) ? 15.0 : 0.0;
20
21    std::cout << "Total after discount and shipping: $" << finalTotal + shipping << endl;
22
23    return 0;
24 }
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

C:\Users\Sajjadahmad\Documents\fayaz 2\3.exe

```
Enter the quantity of Product A: 67
Enter the quantity of Product B: 98
Enter the quantity of Product C: 79
Total after discount and shipping: $7870.9

-----
Process exited after 5.589 seconds with return value 0
Press any key to continue . . .
```

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Sajjadahmad\Documents\fayaz 2\3.exe
- Output Size: 1.83309745788574 MiB
- Compilation Time: 0.78s

C:\Users\Sajjadahmad\Documents\fayaz 2\4.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug 1.cpp 2.cpp 3.cpp 4.cpp

```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     double priceA = 50.0, priceB = 30.0, priceC = 20.0;
6     int quantityA, quantityB, quantityC;
7
8     std::cout << "Enter the quantity of Product A: ";
9     cin >> quantityA;
10    cout << "Enter the quantity of Product B: ";
11    cin >> quantityB;
12    cout << "Enter the quantity of Product C: ";
13    cin >> quantityC;
14
15    double total = (priceA * quantityA) + (priceB * quantityB) + (priceC * quantityC);
16
17    double finalTotal = (total > 200) ? total * 0.9 : total;
18
19    double shipping = (finalTotal < 150) ? 15.0 : 0.0;
20    double totalWithShipping = finalTotal + shipping;
21
22    int loyaltyPoints = (totalWithShipping > 300) ? 50 : 0;
23
24    std::cout << "Loyalty points earned: " << loyaltyPoints << endl;
25 }
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

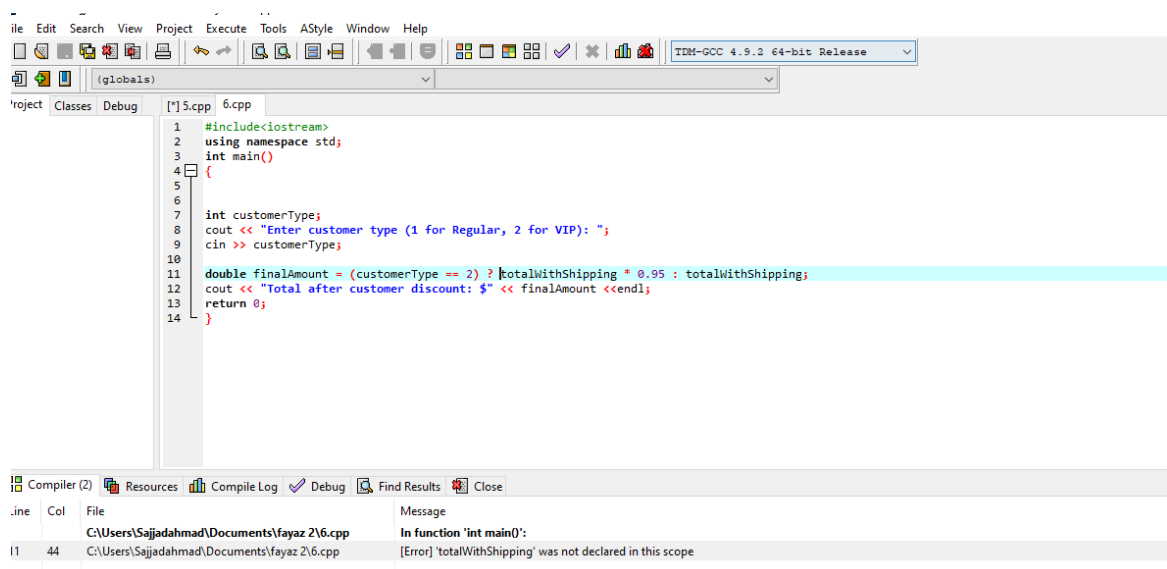
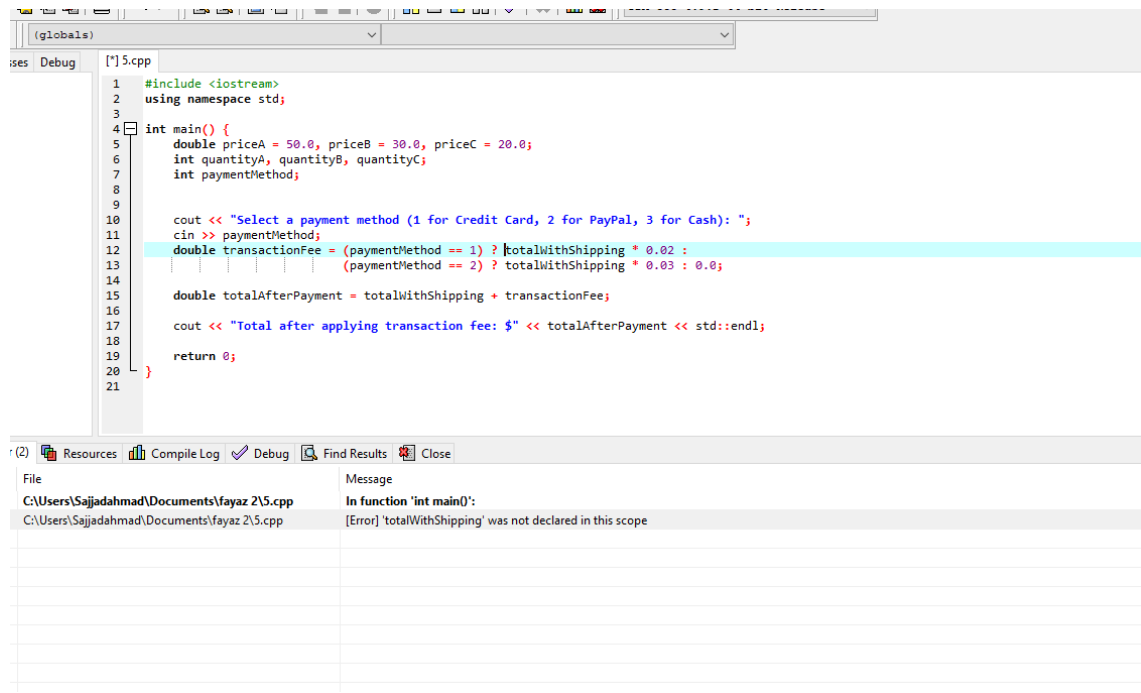
C:\Users\Sajjadahmad\Documents\fayaz 2\4.exe

```
Enter the quantity of Product A: 54
Enter the quantity of Product B: 54
Enter the quantity of Product C: 54
Total after discount and shipping: $4860
Loyalty points earned: 50

-----
Process exited after 2.647 seconds with return value 0
Press any key to continue . . .
```

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Sajjadahmad\Documents\fayaz 2\4.exe
- Output Size: 1.83309745788574 MiB
- Compilation Time: 0.78s



File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug [\*] 5.cpp 6.cpp 7.cpp

```

1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5
6
7
8     string couponCode;
9     cout << "Enter a coupon code (if any): ";
10    cin >> couponCode;
11
12    double couponDiscount = (couponCode == "SAVE10") ? 10.0 : 0.0;
13    double totalAfterCoupon = finalAmount - couponDiscount;
14
15    cout << "Total after applying coupon: $" << totalAfterCoupon << endl;
16 }

```

Compiler (2) Resources Compile Log Debug Find Results Close

Line	Col	File	Message
13	27	C:\Users\Sajadahmad\Documents\fayaz 2\7.cpp	In function 'int main()':
		C:\Users\Sajadahmad\Documents\fayaz 2\7.cpp	[Error] 'finalAmount' was not declared in this scope

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug [\*] 5.cpp 6.cpp 7.cpp 8.cpp

```

1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5
6
7
8
9     int location;
10    cout << "Enter your location (1, 2, or 3): ";
11    cin >> location;
12
13    double taxRate = (location == 1) ? 0.05 :
14                    (location == 2) ? 0.10 : 0.08;
15
16    double totalWithTax = totalAfterCoupon * (1 + taxRate);
17    cout << "Total after applying sales tax: $" << totalWithTax << endl;
18 }

```

Compiler (2) Resources Compile Log Debug Find Results Close

Line	Col	File	Message
6	23	C:\Users\Sajadahmad\Documents\fayaz 2\8.cpp	In function 'int main()':
		C:\Users\Sajadahmad\Documents\fayaz 2\8.cpp	[Error] 'totalAfterCoupon' was not declared in this scope

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5
6
7
8 cout << "Order Summary:\n";
9 cout << "Product A (x" << quantityA << "): $" << priceA * quantityA << endl;
10 cout << "Product B (x" << quantityB << "): $" << priceB * quantityB << endl;
11 cout << "Product C (x" << quantityC << "): $" << priceC * quantityC << endl;
12
13 cout << "Subtotal: $" << total << std::endl;
14 cout << "Discount: $" << total - finalTotal << endl;
15 cout << "Shipping: $" << shipping << std::endl;
16 cout << "Transaction Fee: $" << transactionFee << endl;
17 cout << "Coupon Discount: $" << couponDiscount << endl;
18 cout << "Sales Tax: $" << totalWithTax - totalAfterCoupon << endl;
19 cout << "Total Amount to Pay: $" << totalWithTax << endl;
20 }
```

Compiler (14)				Resources	Compile Log	Debug	Find Results	Close
Line	Col	File	Message					
		C:\Users\Sajjadahmad\Documents\fayaz 2\9.cpp	In function 'int main()':					
27		C:\Users\Sajjadahmad\Documents\fayaz 2\9.cpp	[Error] 'quantityA' was not declared in this scope					
50		C:\Users\Sajjadahmad\Documents\fayaz 2\9.cpp	[Error] 'priceA' was not declared in this scope					
27		C:\Users\Sajjadahmad\Documents\fayaz 2\9.cpp	[Error] 'quantityB' was not declared in this scope					
50		C:\Users\Sajjadahmad\Documents\fayaz 2\9.cpp	[Error] 'priceB' was not declared in this scope					
27		C:\Users\Sajjadahmad\Documents\fayaz 2\9.cpp	[Error] 'quantityC' was not declared in this scope					
50		C:\Users\Sajjadahmad\Documents\fayaz 2\9.cpp	[Error] 'priceC' was not declared in this scope					
26		C:\Users\Sajjadahmad\Documents\fayaz 2\9.cpp	[Error] 'total' was not declared in this scope					

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5
6
7
8
9 int stockA = 10, stockB = 5, stockC = 8;
10
11 if (quantityA > stockA) {
12     std::cout << "Sorry, only " << stockA << " units of Product A are available.\n";
13 }
14 if (quantityB > stockB) {
15     cout << "Sorry, only " << stockB << " units of Product B are available.\n";
16 }
17 if (quantityC > stockC) {
18     cout << "Sorry, only " << stockC << " units of Product C are available.\n";
19 }
20 }
```

r (4)		Resources	Compile Log	Debug	Find Results	Close
File	Message					
C:\Users\Sajjadahmad\Documents\fayaz 2\10.cpp	In function 'int main()':					
C:\Users\Sajjadahmad\Documents\fayaz 2\10.cpp	[Error] 'quantityA' was not declared in this scope					
C:\Users\Sajjadahmad\Documents\fayaz 2\10.cpp	[Error] 'quantityB' was not declared in this scope					
C:\Users\Sajjadahmad\Documents\fayaz 2\10.cpp	[Error] 'quantityC' was not declared in this scope					