

Projects x Files Services

CPPTemplate

Gaddis_9thEd_Chap2_Prob20_HowMuchPaint

Gaddis_9thEd_Chap2_Prob04_RestaurantBill

Header Files

Resource Files

Source Files

restaurantbill.cpp

Test Files

Important Files

Gaddis_9thEd_Chap2_Prob05_AverageOfValues

Gaddis_9thEd_Chap2_Prob06_AnnualPay

Gaddis_9thEd_Chap2_Prob07_OceanLevels

Gaddis_9thEd_Chap2_Prob08_TotalPurchase

Gaddis_9thEd_Chap2_Prob10_MPG

Gaddis_9thEd_Chap2_Prob18_EnergyDrinkConsumption

main(int argc, char** argv) - Navigator x

main(int argc, char** argv)

Source History

```

1  /*
2  * File: restaurantbill.cpp
3  * Author: Kevin Morris
4  * Created on June 24, 2020, 1:23 PM
5  * Purpose: Write a program that computes the tax and tip on a restaurant bill
6  * for a patron with a $88.67 meal charge.
7  * The tax should be 6.75 percent of the meal cost, the tip should be 20 percent
8  * of the total after adding the tax.
9  * Display the meal cost, tax amount, tip amount, and total bill on the screen.
10 */
11 //System Libraries
12 #include <iostream>
13 using namespace std;
14 //User Libraries
15 //Global Constants
16 //Mathematical/Physics/Conversions, Higher dimensioned arrays
17 //Function Prototypes
18 //Execution Begins Here
19 int main(int argc, char** argv) {
20     float tlCst, txCst, tpCst, mlCst, sbtlCst;
21     // Initialize the Random Number Seed
22     //Declare Variables
23     mlCst= // Meal Cost of $88.67.
24     txCst= // Tax cost @ 6.75% of meal cost.
25     sbtlCst=// The meal cost with tip cost included.
26     tpCst= // Tip Cost @ 20% of Meal and Tax Cost.
27     tlCst= // Total Cost of Meal, Tax, including Tip.
28     //Initialize Variables
29         mlCst=88.67;
30         txCst=mlCst*(6.75)/100;
31         sbtlCst=mlCst+txCst;
32         tpCst=sbtlCst*(20.)/100;
33         tlCst=(sbtlCst)+(tpCst);
34     //Map inputs to outputs-> The Process
35     //Display Results

```

Output - Gaddis_9thEd_Chap2_Prob04_RestaurantBill (Run) x

```

Last night was date night, so we decided on a seafood dinner.
The dinner was great, and it was only $88.67.
But, I did not take into consideration the 6.75% tax,
which added up to be $5.99.
When, I added the sales tax to the bill,
this gave me a subtotal of $94.66.
After all that, I was reluctant to factor in a 20% tip as well,
which tacked on another $18.93.
Finally, after I added up the cost of dinner, sales tax, and the tip,.
To my dismay, the bill had sky-rocketed to a grand total of $113.59.
After all this, thats when I come to the humbling realization that,
we should have just ordered pizza!!!
RUN SUCCESSFUL (total time: 718ms)

```

Projects X Files Services — restaurantbill.cpp X

Source History

```

28 //Initialize Variables
29     m1Cst=88.67;
30     txCst=m1Cst*(6.75)/100;
31     sbt1Cst=m1Cst+txCst;
32     tpCst=sbt1Cst*(20.)/100;
33     t1Cst=(sbt1Cst)+(tpCst);
34 //Map inputs to outputs-> The Process
35 //Display Results
36     cout.precision(4);
37     cout<<"Last night was date night, so we decided on a seafood dinner";
38     cout<<"\n";
39     cout<<"The dinner was great, and it was only $";cout <<(m1Cst);
40     cout<<"\n";
41     cout.precision(3);
42     cout<<"But, I did not take into consideration the 6.75% tax,";
43     cout<<"\n";
44     cout<<"which added up to be $" <<(txCst);cout <<"\n";
45     cout.precision(4);
46     cout<<"When, I added the sales tax to the bill,"<<endl;
47     cout<<"this gave me a subtotal of $"<<(sbt1Cst);
48     cout<<"\n";
49     cout<<"After all that, I was reluctant to factor in a 20% tip as well,";
50     cout<<"\n";
51     cout<<"which tacked on another $" <<(tpCst);cout <<"\n";
52     cout<<"Finally, after I added up the cost of dinner, sales tax, and the tip,";
53     cout<<"\n";
54     cout.precision(5);
55     cout<<"To my dismay, the bill had sky-rocketed to a grand total of $" <<(t1Cst);
56     cout<<"\n";
57     cout<<"After all this, thats when I come to the humbling realization that,";
58     cout<<"\n";
59     cout<<"we should have just ordered pizza!!!";
60 //Exit stage right
61     return 0;
62 }

```

main(int argc, char** argv) - Navigator X

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