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COSC 111.001

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9/4/15

Assignment 1

4.

CODE:

#include <iostream>

using namespace std;

int main()

{

double meal\_cost = 88.67;

double tax, tax\_decimal, meal\_tax, tip\_percent, tip\_decimal, meal\_tip, total;

cout << "The cost of your meal is $" << meal\_cost << endl;

cout << "How much is your tax?" << endl;

cin >> tax; // enter 6.75

tax\_decimal = (tax / 100); // convert tax to decimal form

meal\_tax = meal\_cost \* tax\_decimal; // calculate meal tax

cout << "The tax on your meal is $" << meal\_tax << endl;

cout << "What is your percent tip?" << endl;

cin >> tip\_percent; // enter 20 numerically; no percent sign

tip\_decimal = tip\_percent / 100; // convert tip to decimal form

meal\_tip = (meal\_cost + meal\_tax) \* tip\_decimal; // calculate meal tip

cout << "Your tip is $" << meal\_tip << endl;

total = meal\_cost + meal\_tax + meal\_tip;

cout << "AND your total is $" << total << endl;

return 0;

}

RESULT:

The cost of your meal is $88.67

How much is your tax?

6.75

The tax on your meal is $5.98523

What is your percent tip?

20

Your tip is $18.931

AND your total is $113.586

Press any key to continue . . .

5.

CODE:  
#include <iostream>

using namespace std;

int main()

{

double A, B, C, D, E, sum, avg;

cout << "What is your first value?" << endl;

cin >> A; // Enter 28

cout << "What is your second value?" << endl;

cin >> B; // Enter 32

cout << "What is your third value?" << endl;

cin >> C; // Enter 37

cout << "What is your fourth value?" << endl;

cin >> D; // Enter 24

cout << "What is your fifth value?" << endl;

cin >> E; // Enter 33

sum = A + B + C + D + E; // Add all the values together

cout << "The Sum is " << sum << endl;

avg = sum / 5; // divide the sum by the number of variables with numerical values

cout << "The average is " << avg << endl;

return 0;

}

RESULT:

What is your first value?

28

What is your second value?

32

What is your third value?

37

What is your fourth value?

24

What is your fifth value?

33

The Sum is 154

The average is 30.8

Press any key to continue . . .

13.

CODE

#include <iostream>

using namespace std;

int main()

{

double cost, percent\_profit, profit\_decimal, revenue;

cout << "What is the cost of a circuit board?" << endl;

cin >> cost; // 14.95, write numerical value, no "$" sign

cout << "What is the percent profit?" << endl;

cin >> percent\_profit; // 35, write numerical value, no "%" sign

profit\_decimal = percent\_profit / 100;

revenue = cost / (1 - profit\_decimal);

cout << "Your selling price is $" << revenue << endl;

return 0;

}

RESULT

What is the cost of a circuit board?

14.95

What is the percent profit?

35

Your selling price is $23

Press any key to continue . . .