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Programming in C++

Repl.it URL Link: https://repl.it/repls/HandmadeSubtleBlog

**//Corporate Sales**

/\*Instructions:

**CORPORATE SALES DATA EXAMPLE USING STRUCTURE**

// This program stores and displays corporate sales data. The data

// is stored in structures which are passed to a function that

// displays the data.

#include <iostream>

#include <iomanip>

#include <string>

using namespace std;

struct CorpData

{

string name; // Division name

long qtr1; // Holds a division's sales data for each of 4 quarters

long qtr2;

long qtr3;

long qtr4;

// Constructor with 5 parameters and default values specified

// for when no arguments, or fewer than 5 arguments, are received

CorpData(string n = " ", long q1 = 0, long q2 = 0, long q3 = 0, long q4 = 0)

{

name = n;

qtr1 = q1;

qtr2 = q2;

qtr3 = q3;

qtr4 = q4;

}

};

// Function prototype

void displaySalesInfo(const CorpData &);

int main()

{

// Define and initialize 4 CorpData structures

CorpData east ("East ", 621900, 620400, 611900, 634500),

west ("West ", 531000, 538000, 549200, 588100),

north("North", 482900, 477500, 479200, 489600),

south("South", 658900, 644900, 653000, 660100);

cout << " Annual Sales Report by Division \n\n";

cout << "Division Annual Avg. Qtr. \n";

cout << " Name Sales Sales \n";

cout << "----------------------------------- \n";

displaySalesInfo(east);

displaySalesInfo(west);

displaySalesInfo(north);

displaySalesInfo(south);

return 0;

}// end main function

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* displaySalesInfo \*

\* This function displays the annual sales and average \*

\* quarterly sales for the CorpData structure variable \*

\* passed to it. \*

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void displaySalesInfo(const CorpData &div)

{

double annualSales = div.qtr1 + div.qtr2 + div.qtr3 + div.qtr4;

double avgQtrSales = annualSales / 4;

cout << div.name << " $" << setw(9) << annualSales << " $" << setw(9) << avgQtrSales << endl;

} // end displaySalesInfo function

/\* OUTPUT PRODUCED BY THIS PROGRAM

Annual Sales Report by Division

Division Annual Avg. Qtr.

Name Sales Sales

-----------------------------------

East $2.4887e+006 $ 622175

West $2.2063e+006 $ 551575

North $1.9292e+006 $ 482300

South $2.6169e+006 $ 654225

\*/

//"#include" Statements

#include <iostream>

#include <iomanip>

#include <string>

//Using Namespace Statement

using namespace std;

//Structs

struct CorpData

{

//Declarations: Struct Variables

string name; // Division name

long qtr1; // Holds a division's sales data for each of 4 quarters

long qtr2;

long qtr3;

long qtr4;

// Constructor with 5 parameters and default values specified

// for when no arguments, or fewer than 5 arguments, are received

CorpData(string n = " ", long q1 = 0, long q2 = 0,

long q3 = 0, long q4 = 0)

{

name = n;

qtr1 = q1;

qtr2 = q2;

qtr3 = q3;

qtr4 = q4;

}

};

// Function prototypes

void displaySalesInfo(const CorpData &);

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*main\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

int main()

{

// Define and initialize 4 CorpData structures

CorpData east ("East ", 621900, 620400, 611900, 634500),

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cout << " Annual Sales Report by Division \n\n";

cout << "Division Annual Avg. Qtr. \n";

cout << " Name Sales Sales \n";

cout << "----------------------------------- \n";

displaySalesInfo(east);

displaySalesInfo(west);

displaySalesInfo(north);

displaySalesInfo(south);

//Return

return 0;

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*end of main\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* displaySalesInfo \*

\* This function displays the annual sales and average \*

\* quarterly sales for the CorpData structure variable \*

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void displaySalesInfo(const CorpData &div)

{

double annualSales = div.qtr1 + div.qtr2 + div.qtr3 + div.qtr4;

double avgQtrSales = annualSales / 4;

cout << div.name << " $" << setw(9) << annualSales << " $" << setw(9) << avgQtrSales << endl;

}