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Program 6

SE114.11

PURPOSE:

To write an interactive program to help the sales department determine the pricing of products sold to customers.

Produce a program which determines the cost of 1 to 15 products, the tax on the sale, and the total amount due.

VARIABLE DICTIONARY:

REPRESENTS VARIABLE

Company name company\_name

Cost of items together items\_cost

Cost of tax on all items items\_tax

Max number of products max\_products

Product name product\_name

Product Number product\_number

Price of product product\_price

Run reply run\_reply

Sales tax rate sales\_tax

Total cost total\_cost

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#include <iostream>

#include <string>

using namespace std;

char run\_reply;

string company\_name;

string product\_name;

int product\_number;

double items\_cost;

double items\_tax;

double max\_products;

double product\_price;

double sales\_tax;

double total\_cost;

void setup\_function();

void input\_function();

void headings\_function();

void process\_output\_function();

int main()

{

system("cls");

setup\_function();

cout << "Do you want to prepare a sales chart? ";

cin >> run\_reply;

run\_reply = toupper(run\_reply);

while (run\_reply != 'Y' && run\_reply != 'N')

{

cout << "Error" << endl;

cout << "Enter either a Y or N" << endl;

cin >> run\_reply;

run\_reply = toupper(run\_reply);

}

system("cls");

while (run\_reply == 'Y')

{

input\_function();

headings\_function();

process\_output\_function();

cout << "Would you like to prepare another chart? (Y/N) " << endl;

cin >> run\_reply;

run\_reply = toupper(run\_reply);

while (run\_reply != 'Y' && run\_reply != 'N')

{

cout << "Error" << endl;

cout << "Enter either a Y or N" << endl;

cin >> run\_reply;

run\_reply = toupper(run\_reply);

}

system("cls");

}

return 0;

}

void setup\_function()

{

max\_products = 15;

sales\_tax = 0.07;

cout.setf(ios::fixed, ios::floatfield);

cout.setf(ios::showpoint);

cout.precision(2);

}

void input\_function()

{

cout << "Company Name: ";

cin >> company\_name;

cout << "Product Name: ";

cin >> product\_name;

cout << "Product Price: ";

cin >> product\_price;

system("cls");

}

void headings\_function()

{

cout << " PRICE QUOTATION" << endl;

cout << " PREPARED FOR: " << company\_name << endl;

cout << " PRODUCT NAME: " << product\_name << endl << endl << endl;

cout << "Number of Items Cost Tax Total Price" << endl << endl;

}

void process\_output\_function()

{

for (product\_number = 1; product\_number <= max\_products; product\_number = product\_number + 1)

{

items\_cost = product\_number \* product\_price;

items\_tax = items\_cost \* sales\_tax;

total\_cost = items\_cost + items\_tax;

cout << product\_number << " " << items\_cost << " " << items\_tax << " " << total\_cost << endl;

}

}