Exercise 4-2: Conditionals

#include <iostream>

#include <iomanip>

using namespace std;

int main() {

double cost;

double tax = 0.075;

double fee = 5.99;

double conditional = 50.00;

double total;

cout << "Enter the total cost: $";

cin >> cost;

if (cost < conditional)

{

cout << "You will have to pay a shipping fee of $" << fee << endl;

}

else

{

cost = cost - fee;

cout << "You paid at least ";

cout << fixed << setprecision(2);

cout << conditional << " so shipping is free" << endl;

}

cout << "With a tax of %" << (tax \* 100);

total = cost + (cost \* tax);

cout << " percent, your total is $";

cout << fixed << setprecision(2);

cout << (total + fee) << endl;

system("pause");

return 0;

}

Exercise 4-3: Coding from Documentation

Function to determine if a char input is a digit: isdigit(ch)

How many pieces of data must be passed to the function? 1 char type

Indicate what will be returned by the function. nonzero value (true) or zero value (false)

Demonstrate the appropriate use of the function in a short code fragment:

#include <iostream>

#include <string>

#include <ctype.h>

using namespace std;

int main() {

char letter;

cout << "Enter a letter: ";

cin >> letter;

while (isdigit(letter))

{

cout << "You entered a number. That is not a valid input..." << endl;

cout << "Enter a letter: ";

cin >> letter;

}

if (!isdigit(letter))

cout << "You entered the letter " << letter << endl;

system("pause");

return 0;

}