**ASSIGNMENT**

**Numbers 10, 13, 14 in book, page 81**

**10. Miles per Gallon**

A Car holds 15 gallons of gasoline and can travel 375 miles before refueling. Write a program that calculates the number of miles per gallon the car gets. Display the result on the screen.

Hint: Use the following formula to calculate miles per gallon (MPG)

MPG = Miles Driven/Gallons of Gas Used

#include <iostream>

using namespace std;

int main()

{

int gas = 15, miles = 375;

cout << "This vehicle gives " << miles / gas;

cout << "MPG.";

return 0;

}

**13. Circuit Board Price**

An electronic company sells circuit boards at a 35 percent profit. Write a program that will calculate the selling price of a circuit board that costs $14.95. Display the result on the screen.

#include <iostream>

using namespace std;

int main()

{

double purchasePrice = 14.95, profitMargin = 1.35, retailPrice;

retailPrice = purchasePrice \* profitMargin;

cout << "These circuit boards should be sold at a price of $";

cout << retailPrice << " each, to make a 35% profit.";

return 0;

}

**14. Personal Information**

Write a program that displays the following pieces of information, each on a separate line:

Your name

Your address, with city, state, and ZIP code

Your telephone number

Your college major

Use only a single cout statement to display the following pattern on the screen

#include <iostream>

#include <string>

using namespace std;

int main()

{

string name, address, phone, major;

name = "Carlos Vigil\n";

address = "19 Prospect Street\nSeymour, CT 06483";

phone = "(203) 285-5665";

major = "Computer Science";

cout << name << address << endl << phone << endl << major << endl;

return 0;

}