Output With Variables Mixing String Literal and Variables Example

In-Class Exercise - Due: February 7, 2019 - before 10:00pm

Objective: Output with Variables

Important instructions:

- All programs must include comments at the top of your program: your name, the class name (CSIT 575), program name and the program description (purpose of the program).
- Copy and paste your program code and output in Part B of each program. Note: Use snipping tool to snip the output.
- Once it is done, save and submit this word file via Canvas.

1. MilesPerGallon.cpp program

A car holds 20 gallons of gasoline and can travel 312 miles before refueling. Write a program that computes the number of miles per gallon the car gets. Display the result on the screen.

Sample Output:

The car gets 15.6 miles per gallon.

Part A: Pseudocode

Input or given data:

Processing:

Output:

Part B: Copy and paste your program (source) code and the outputs after this line.

Example of an ICE assignment

MilesPerGallon.cpp program

A car holds 20 gallons of gasoline and can travel 312 miles before refueling. Write a program that computes the number of miles per gallon the car gets. Display the result on the screen.

Part A: Pseudocode

```
Input or Given data - // Define and initialize variables
      double gallonInTank = 20;
      double milePerTank = 312;
      double milesPerGallon;
Processing // Calculate miles per gallon
      milesPerGallon = milePerTank / gallonInTank;
Output: // Display result
      Display "Number of miles per gallon the car gets: ", milesPerGallon;
```

```
□// First Last Name
       // CS 575 - MilePerGallon.cpp
       // The program calculates how many miles per gallon a vehicle gets.
       #include <iostream>
       using namespace std;
      ∃int main()
           // Input - define and initialize variables
10
11
           double gallonsInTank = 20.0; // Gas tank capacity in gallons
           double milesPerTank = 312.0; // Miles driven on one tank
12
           double milesPerGallon;  // Miles per gallon
13
14
15
           // Processing - Calculate miles per gallon
           milesPerGallon = milesPerTank / gallonsInTank;
16
18
           // Output - Display result
           cout << "The car gets " << milesPerGallon << " miles per gallon.\n";</pre>
19
           cout << endl;</pre>
20
           return 0:
23
```

Your name Class - program name Purposes of the program

Input or given data:

- Define and initialize variables to the given data.
- Define new variables.

Processing – calculation

Output – the result being displayed should be the same as the given sample output.

Sample Output:

The car gets 15.6 miles per gallon.

C:\WINDOWS\system32\cmd.exe

The car gets 15.6 miles per gallon.

Press any key to continue . . .

Note: Mixing String Literal and Variables