PA 2

Codegain

Due Date: Meeting 3

Before you begin, you should:

- Have your Java compiler (JDK) already working

- Know how to compile and run a Java program

- Know how to write a simple Java program to print statements to the console

- Understand how to comment your code and why it's important

In this programming assignment, we will:

- Use variables of different types and assign them to values

- Perform operations with multiple variables

- Print out variables to the console with string concatenation

- Receive user input through the console

1   MilesPerGallon.java

Write a program that creates a String variable named *myCar* and an integer variable named *milesPerGallon*. Initialize *myCar* to "My car gets " and initialize *milesPerGallon* to 30. Using System.out.println(), printout the following string using the 2 variables you made:

```
>> My car gets 30 miles per gallon.
```

2   PrintFullName.java

Write a program that asks the user their first name then their last name. Output a greeting with the full name of the user by using their two inputs. Make sure your final output perfectly matches the example below!

```
>> Hello, what is your first name?
> Bruce
>> Hi Bruce. What's your last name?
> Wayne
>> Cool! So your full name is Bruce Wayne!
```

Hint: Use the Scanner class.

3   TotalTripTime.java

Create a program that asks the user via the console how far he/she is travelling and their average speed throughout the trip. Then, output to them the time remaining (in minutes) for the entire trip.

Example Output 1

```
>> How far are you travelling? (in miles)
> 100
>> What is your average speed throughout the trip? (in mph)
> 50
>> Total Trip Time: 120 mins
```

Example Output 2

```
>> How far are you travelling? (in miles)
> 75
>> What is your average speed throughout the trip? (in mph)
> 50
>> Total Trip Time: 90 mins
```

Hint: Look at the Scanner class method NextDouble().