

CIS 500 – Fundamentals of Software Practice

Weekly Exercise #7

Topic: Classes in Python

Assignment:

- First, read Chapter 9 on “**Objects and Classes**” from the textbook.
- The file **WEX-7.py** defines a class named `Car` with the following methods:
 - `__init__()`
 - `add_gas()`
 - `gas_in_tank()`
 - `drive()`
 - `__eq__()`
 - `__str__()`
 - `__repr__()`
- Your task is to complete only the methods below by replacing the **pass** statement in each method with your implementation:
 - `__init__()`
 - `add_gas()`
 - `gas_in_tank()`
 - `drive()`
- DO NOT make any changes to the rest of code in this file.
- DO NOT edit or delete the docstrings (text enclosed in triple double quotes) included in the class.
- To run your program, use the following commands: `python WEX-7.py`
- When run using the command above, your program should produce the following output:

```
Car(Honda,Accord,20,0)
Car(Honda,Accord,20,0)
Car(Honda,Civic,20,10)
False
False
False
True
False
False
False
True
Car(Honda,Accord,20,10.0)
Car(Toyota,Prius,50,10)
Car(Toyota,Prius,50,6.0)
Value for fuel efficiency must be a positive number.
Value for fuel in tank can't be a negative number.
```

Exercise Instructions:

- Download the file **WEX-7.py** from Blackboard.
- Make required changes to code in file **WEX-7.py**.
- Run and test your code to make sure it works correctly.
- Upload the file **WEX-7.py** on Blackboard by midnight of due date.