



CMSC 105 Elementary Programming

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Practice Exercises

Outline

Exercise 1

- Create a class Number that contains the following:
 - Data fields:
 - 4 positive numbers-- number 1, number 2, number 3, and number 4.
 - Methods:
 - Get and set methods for the data members.
 - findMin method that returns the minimum of the numbers (data members).
 - findAverage that returns the average value of the 4 numbers (data members).

In the test program, read 4 numbers as the user input and print the minimum and average values using an object of the Number class.

Exercise 2

- Define a class `Commission` that contains the following:
 - Data fields: `price`, `commission_rate`
 - Methods:
 - `__init__(self, price=0.0, commission=0.0)`: Default values of `price` and `commission` are 0.0, unless initialized using objects.
 - `calculate_commission(self)`: This returns the commission value.
i.e. `price * (commission_rate/100)`

Write a test program that creates an object of class `Commission` and initialize values of `price` and `commission_rate` using constructor.

Example: `c=Commission(100,5)` # here rate is 5%.

Print the commission by calling the method of class using object.



Thank you!
Questions?