

## WMDD 4830 – Object Oriented Design and Programming

### Midterm Practical Test

#### Instructions:

1. Study and Analyze the Scenario.
2. Abstract the relevant information (nouns, etc.) and Identify potential Classes, Properties, Methods and Children.
3. Create a folder called “oopMidterm” with the standard folder structure that we have been using in class.
4. Open the folder in VS Code, create the appropriate files, and begin the Encapsulation process (in JavaScript); Note: just have methods write to the console (if appropriate).
5. Write the code to Instantiate the different objects.
6. Use Faker to generate some sample data.
7. Process the objects, again writing out to the console as appropriate.
8. Zip the “oopMidterm” folder and submit it to the dropbox.

#### Scenario:

A client owning an animal shelter has approached you to create a system for them. During your interview, you took the following notes:

- The shelter accepts Dogs, Cats and small Reptiles
- There are 6 paid Staff members, staff members earn \$800/month plus \$200/month for each year worked
- There are 2 paid Managers, managers earn \$1,250/month plus \$450/month for each year worked
- There are 75 volunteers that work in the shelter every week
- The managers control the logistics and payroll of the shelter and wants to be able to see how much an employee makes per month on demand
- The staff records information such as breed, description, weight, How they came to the shelter, who dropped them off, and vaccination status (unknown, current, needed)
- The shelter is highly dependant on their donors and want to see information on them such as Name, Phone Number, Amount Donated Monthly (same every month), Date of Donations, and they'd like a way to see whose donations are coming up within the next week