**<Last Name>, <First Name>**

<Date>

**Homework 2: Basic Java [100 Points]**

This document is a template for your solutions submission. You are free to add additional information in this submission if you like. All screenshots must be clear and viewable. All code should be commented and easily readable.

Please identify which problems were completed. If any were incomplete, please identify where you encountered problems.

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| **Problem 1: ??**  **Problem 2: ??**  **Problem 3: ??**  **Problem 4: ??**  **Problem 5: ??** |

**Problem 1: [25 points] Basic classes with Enums**

Paste the source code of the modified takeMedicine method into the following area [10 points]

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Show the changes in the Dog and the Cat classes. If no changes leave it empty [5 points]

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Paste the source code of the modified AllAnimalTests.testTakeMedicine() unit test into the following area [5 points]

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Show screenshot of the execution of the updated AllAnimalTests.testTakeMedicine() unit test [5 points]

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**Problem 2: [25 points] abstract methods**

Paste the source code of the playWithToy method into the following area [5 points]

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Show the implementation of the playWithToy method in the Dog class [5 points]

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Show the implementation of the playWithToy method in the Cat class [5 points]

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Paste the source code of the testPlayWithToy() unit test into the following area [5 points]

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Show screenshot of the execution of the testPlayWithToy() unit test that verifies all scenarios [5 points]

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**Problem 3: [25 points] instance vs abstract methods**

Paste the source code of the whoAreYou() method into the following area [10 points]

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Paste the source code of the whoAreYou() unit test into the following area [5 points]

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Show screenshot of the execution of the whoAreYou() unit test [5 points]

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Explain the difference between the playWithToy(() and whoAreYou() methods[5 points]

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**Problem 4: [25 points] inheritance**

Paste the source code of the Hedgehog class into the following area [10 points]

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Paste the source code of the testPlayWithMeForHedgehog() unit test into the following area [5 points]

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Show screenshot of the execution of the testPlayWithMeForHedgehog() unit test [5 points]

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Explain why you had to implement some methods in the Hedgehog class , but could skip implementing others? [5 points]

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**Problem 5: Bonus: [15 points] anonymous methods**

Paste the source code of the doSuperTrick method into the following area [2 points]

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Paste the source code of the trainForSuperTricks method into the following area [3 points]

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Paste the source code of the testTrainForSuperTricks() unit test into the following area [3 points]

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Show screenshot of the execution of the testTrainForSuperTricks() unit test [2 points]

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Paste the source code of the testTrainForSuperTricks\_anonymous() unit test into the following area [3 points]

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Show screenshot of the execution of the testTrainForSuperTricks\_anonymous() unit test [2 points]

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