**5.4 PA Extending & Overriding**

John Deardorff

SDC230 | Object-Oriented Programming Using Java

Dr. Helio de Castro

07/22/2025

**Instructions**

For this assignment, you will use the Visual Studio Code (VS Code) IDE to compile and run a Java program; you can do this in the VCASTLE environment or on your own computer if you have VS Code installed and configured to do Java development. You will create the Java code based on the requirements provided below.

Your application will demonstrate the use of inheritance and overriding. Incorporate the following requirements into your application:

* The program will consist of three files:
  + App.java - the main application class
  + Animal.java - superclass representing an Animal
  + Cat.java - subclass representing a Cat
  + Include documentation at the top of each file that includes
    - Your name
    - Date of development
    - Assignment (e.g., SDC230 Performance Assessment - Inheritance & Overriding)
    - Description of the class
* The main application class must meet the following requirements
  + Print a line that states "Your Name - Week 5 PA Inheritance and Overriding"
  + Creates an instance of each class using parameters of your choosing
  + Print each object's properties to the console using the PrintAnimal function
  + Update the properties of each instance to reflect values that are different from their original values
  + Print each object's properties to the console using the PrintAnimal function

**Solutions**

A black screen with white text

AI-generated content may be incorrect.

A screenshot of a computer program

AI-generated content may be incorrect.

A screenshot of a computer program

AI-generated content may be incorrect.

A screen shot of a computer program

AI-generated content may be incorrect.