

Continuous Assessment (CA) - Object-Oriented Programming

Weight: 40% of Total Module Grade

Project: Kennel Management System

Create a kennel management system as a C# Console Application that handles a dog concept generically, dog breeds, kennels where dogs can stay, and basic operations are implemented for dogs by kennel management team.

Illustrate each of the following concepts in your submission: Classes & Objects, Encapsulation, Inheritance, Polymorphism, Abstract Classes & Interfaces, Collections.

Assessment Overview (40 marks total)

Component	Marks	Focus Area
Part A: Class Design & Implementation	15 marks	Classes, Objects, Encapsulation
Part B: Inheritance & Polymorphism	12 marks	Inheritance hierarchies, Method overriding
Part C: Interfaces & Abstract Classes, and Collections	8 marks	Interface implementation, Abstract classes
Part D: Code Quality & Documentation	5 marks	Best practices, Documentation

Create a test or series of tests of the whole system that involves creating the kennel and dogs and collection of dogs and calls the operations which are possible on the dog population - for example feeding, walking, cleaningOut etc.

Submission Date

30 November 2025

Submissions required.

- ZIP file for the entire project
- Video recording where you demonstrate the system and walk through the code and illustrate your understanding of the concepts listed above. (no more than 8 minutes.)