

Pet Adoption Center System

Part 1: Encapsulation – Create the Base Class

1. Create a **Pet** class with:

- Private attributes: `__name` , `__age` , `__adopted`
 - Methods:
 - `get_info()` → prints pet name and age
 - `adopt_pet()` → sets `__adopted = True`
 - `is_adopted()` → returns adoption status (`True` / `False`)
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Part 2: Inheritance – Create Pet Types

1. Create a **Dog** class that inherits from **Pet**

- Add method: `bark()` → prints `"Woof!"`

2. Create a **Cat** class that inherits from **Pet**

- Add method: `meow()` → prints `"Meow!"`
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Part 3: Adoption Registration (Separate Class)

1. Create a **Person** class with:

- Attributes: `name` , `phone_number`
 - Method: `get_details()` → prints name and phone number
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Part 4: Simulation

1. Write a simple script that:

- Creates 1 dog named "Buddy", age 3
- Creates 1 cat named "Luna", age 2
- Creates a person named "Anita", phone "999999210"

- Prints info for both pets
 - Marks the dog as adopted
 - Prints if each pet is adopted or not
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