

# Evidence for Implementation and Testing Unit.

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**I.T. 1 - Demonstrate one example of encapsulation that you have written in a program.**

**I.T. 2 - Example the use of Inheritance in a program.**

**I.T. 3 - Example of Searching.**

A function to search for an animal by its ID, followed by the function running in the terminal.

```
def self.find(id)
  sql = "SELECT * FROM animals
  WHERE id = $1"
  values = [id]
  result = SqlRunner.run(sql, values).first
  animal = Animal.new(result)
  return animal
end
```

```
[3] pry(main)> Animal.find(3)
=> #<Animal:0x007faca465b898
  @admission_date="December 2017",
  @adoptable=true,
  @adopted=true,
  @id=3,
  @name="Django",
  @type="Hamster",
  @url=
    "http://absfreepic.com/absolutely_free_photos/small_photos/cute-
hamster-with-yellow-hair-2516x1667_93382.jpg">
```

## I.T. 4 - Example of Sorting.

A function to find all animals that are ready for adoption, followed by the function running in terminal.

```
def self.ready_for_adoption()
  sql = "SELECT * FROM animals WHERE adoptable = 't' AND
  adopted = 'f'"
  animal_data = SqlRunner.run(sql)
  animals = map_items(animal_data)
  return animals
end
```

```
l4j pry(main)> Animal.ready_for_adoption
=> [#<Animal:0x007faca4623038
  @admission_date="April 2018",
  @adoptable=true,
  @adopted=false,
  @id=5,
  @name="Beyonce",
  @type="Giant Rabbit",
  @url=
    "http://flemish-giant.com/wp-content/uploads/2015/10/Flemish-Gi
ant-Rabbit-Light-Grey.jpg">,
  #<Animal:0x007faca4622e80
  @admission_date="February 2018",
  @adoptable=true,
  @adopted=false,
  @id=6,
  @name="Pinky",
  @type="Cat",
  @url=
    "https://www.pets4homes.co.uk/images/breeds/23/large/3514efe61d
990b82bbc37bed00eea52a.jpg">,
  #<Animal:0x007faca4622cc8
  @admission_date="May 2018",
  @adoptable=true,
  @adopted=false,
  @id=7,
  @name="Monkey",
  @type="Guinea Pig",
  @url=
    "https://www.petmd.com/sites/default/files/guide-to-guinea-pigs
.jpg">,
  #<Animal:0x007faca4622b10
  @admission_date="April 2018",
  @adoptable=true,
  @adopted=false,
  @id=8,
  @name="Edgar",
  @type="Rat",
  @url=
    "https://thumbror.forbes.com/thumbror/960x0/https%3A%2F%2Fblogs-i
mages.forbes.com%2Fjudystone%2Ffiles%2F2018%2F02%2Fhantavirus-mous
e-cdc.jpg">]
```