## Pseudocode for driver.py

FROM typing IMPORT List FROM dog IMPORT Dog FROM monkey IMPORT Monkey IMPORT intake IMPORT initialize IMPORT print\_animals IMPORT reserve\_animal

**CLASS Driver:** 

INIT dog ARRAY INIT monkey ARRAY

METHOD main()

INIT scnr AS input FROM initialize INIT dog\_list FROM initialize INIT monkey\_list

SET usr input TO NOTHING

WHILE usr\_input IS NOT q
DISPLAY menu
SET usr\_input TO scnr

IF usr\_input EQUALS 1
DISPLAY "Beginning Dog Intake"
FROM intake CALL intake\_new\_dog

ELSE IF usr\_input EQUALS 2
DISPLAY "Beginning Monkey Intake"
FROM intake CALL intake new monkey

ELSE IF usr\_input EQUALS 3

DISPLAY "Beginning Animal Reservation"
FROM reserve\_animal CALL reserve\_animal

ELSE IF usr\_input EQUALS 4
DISPLAY "Displaying List of dogs"
FROM print\_animals CALL print\_animals(1)

ELSE IF usr\_input EQUALS 5
DISPLAY "Displaying List of monkeys"
FROM print\_animals CALL print\_animals(2)

ELSE IF usr\_input EQUALS 6
DISPLAY "Displaying List of unreserved animals"
FROM print\_animals CALL print\_animals(3)

ELSE IF usr\_input EQUALS q DISPLAY "Quitting." END **ELSE** 

DISPLAY "Invalid command."

END IF END WHILE

METHOD display\_menu()

DISPLAY 2 new line

DISPLAY "Rescue Animal System Menu"

DISPLAY "[1] Intake a new dog"

DISPLAY "[2] Intake a new monkey"

DISPLAY "[3] Reserve an animal"

DISPLAY "[4] Print a list of all dogs"

DISPLAY "[5] Print a list of all monkeys"

DISPLAY "[6] Print a list of all animals that are not reserved"

DISPLAY "[q] Quit application"

DISPLAY "Enter a menu selection"

## Pseudocode for dog.py

FROM rescueanimal.py IMPORT RescueAnimal

**CLASS Dog** 

Constructor METHOD (self, name, breed, gender, age, weight, acquisition\_date, acquisition country, training status, reserved, in service country)

CALL super() METHOD(name, gender, age, weight, acquisition\_date,

acquisition country, training status, reserved, in service country)

SET self.name TO name

SET self.breed TO breed

SET self.gender TO gender

SET self.age TO age

SET self.weight TO weight

SET self.acquisition\_date TO acquisition\_date

SET self.acquisition\_country TO acquisition\_country

SET self.training\_status TO training\_status

SET self.reserved TO reserved

SET self.in service country TO in service country

METHOD get\_breed(self)

RETURN self.breed

METHOD set\_breed(self, breed)

SET self.breed TO breed

# Pseudocode for monkey.py

FROM rescueanimal.py IMPORT RescueAnimal

CLASS Monkey(RescueAnimal)

Constructor METHOD (self, name, species, gender, age, weight, tail\_length, height, body\_length, torso\_length, skull\_length, neck\_length, acquisition\_date, acquisition\_country, training\_status, reserved, in service country)

CALL super() METHOD(name, gender, age, weight, acquisition\_date, acquisition country, training status, reserved, in service country)

SET self.name TO name

SET self.species TO species

SET self.gender TO gender

SET self.age TO age

SET self.weight TO weight

SET self.tail length TO tail length

SET self.height TO height

SET self.body length TO body length

SET self.torso\_length TO torso\_length

SET self.skull\_length TO skull\_length

SET self.neck\_length TO neck\_length

SET self.acquisition\_date TO acquisition\_date

SET self.acquisition\_country TO acquisition\_country

SET self.training\_status TO training\_status

SET self.reserved TO reserved

SET self.in\_service\_country TO in\_service\_country

METHOD get\_species(self)
RETURN self.species

METHOD set\_species(self, species)
SET self.species TO species

METHOD get\_tail\_length(self)
RETURN self.tail\_length

METHOD set\_tail\_length(self, tail\_length)
SET self.tail\_length TO tail\_length

METHOD get\_height(self)
RETURN self.height

METHOD set\_height(self, height)
SET self.height TO height

METHOD get\_body\_length(self)
RETURN self.body\_length

METHOD set\_body\_length(self, body\_length)
SET self.body\_length TO body\_length

METHOD get\_torso\_length(self)

RETURN self.torso\_length

METHOD set\_torso\_length(self, torso\_length)
SET self.torso\_length TO torso\_length

METHOD get\_skull\_length(self)

RETURN self.skull\_length

METHOD set\_skull\_length(self, skull\_length)

SET self.skull\_length TO skull\_length

METHOD get\_neck\_length(self)

RETURN self.neck\_length

METHOD set\_neck\_length(self, neck\_length)
SET self.neck\_length TO neck\_length

#### Pseudocode for rescue\_animal.py

CLASS RescueAnimal

Constructor METHOD (self, name, gender, age, weight, acquisition\_date, acquistion\_country, training\_status, reserved, in\_service\_country)

SET self.name TO name

SET self.gender TO gender

SET self.age TO age

SET self.weight TO weight

SET self.acquisition\_date TO acquisition\_date

SET self.acquisition\_country TO acquistion\_country

SET self.training\_status TO training\_status

SET self.reserved TO reserved

SET self.in\_service\_country TO in\_service\_country

METHOD get\_name(self)

RETURN self.name

METHOD set\_name(self, name)

SET self.name TO name

METHOD get\_gender(self)
RETURN self.gender

METHOD set gender(self, gender)

SET self.gender TO gender

METHOD get\_age(self)
RETURN self.age

METHOD set\_age(self, age)

SET self.age TO age

METHOD get\_weight(self)
RETURN self.weight

METHOD set\_weight(self, weight)

SET self.weight TO weight

METHOD get\_acquisition\_date(self)

RETURN self.acquisition\_date

METHOD set\_acquisition\_date(self, acquisition\_date)
SET self.acquisition\_date TO acquisition\_date

METHOD get acquisition location(self)

```
RETURN self.acquisition_country
```

METHOD set\_acquisition\_location(self, acquisition\_country)
SET self.acquisition\_country TO acquisition\_country

METHOD get\_reserved(self)
RETURN self.reserved

METHOD set\_reserved(self, reserved)
SET self.reserved TO reserved

METHOD get\_in\_service\_location(self)

RETURN self.in\_service\_country

METHOD set\_in\_service\_country(self, in\_service\_country)
SET self.in\_service\_country TO in\_service\_country

METHOD get\_training\_status(self)
RETURN self.training\_status

METHOD set\_training\_status(self, training\_status) SET self.training\_status TO training\_status

#### Pseudocode for intake.py

IMPORT dog.py
IMPORT monkey.py

FUNCTION intake\_new\_dog(scanner, dog\_list)
DISPLAY What is the dog's name?
READ input ASSIGN TO name

FOR EACH dog in dog\_list

IF dog.name EQUALS TO name

DISPLAY "This dog is already in our system" RETURN

**END IF** 

**END FOR** 

DISPLAY Adding "Dog:" ADD name

DISPLAY "What is the dog's breed?"

READ input ASSIGN breed")

DISPLAY "Breed:" ADD breed

DISPLAY "What is the dog's gender?"
READ input ASSIGN gender

DISPLAY "Gender:" ADD gender

DISPLAY "What is the dog's age?"

READ input ASSIGN age
DISPLAY "Age:" ADD age

DISPLAY "What is the dog's weight?"

READ input ASSIGN weight

DISPLAY "Weight:" ADD weight

DISPLAY "When was the dog acquired? Format: mm-dd-yyyy"

READ input ASSIGN acquisition\_date

DISPLAY "Dog Acquired:" ADD acquisition\_date

DISPLAY "What Country did the dog come from?"

READ input ASSIGN acquisition\_country

DISPLAY "Country of Origin:" ADD acquisition\_country

DISPLAY "What is the dog's training status?"

DISPLAY "Phase I, Phase II, Phase III, Phase IV, Phase V, or In Service"

READ input ASSIGN training\_status

DISPLAY "Training Status:" ADD training\_status

DISPLAY "Has this dog been reserved? (True or False)"
READ input ASSIGN reserved\_temp
DISPLAY "Reservation Status:" ADD reserved\_temp
ASSIGN reserved TO reserved\_temp.lower() EQUALS 'true'

DISPLAY "What country is the dog in service?"

READ input ASSIGN in\_service\_country

DISPLAY "Country of Service:" ADD in\_service\_country

CREATE dog4 AS Dog ASSIGN name, breed, gender, age, weight, acquisition\_date, acquisition\_country, training\_status, reserved, in\_service\_country

APPEND dog4 TO dog\_list
DISPLAY "New Dog" ADD name ADD "added!"

FUNCTION intake\_new\_monkey(scanner, monkey\_list)

DISPLAY "What is the Monkey's name?"

READ input ASSIGN name

```
FOR EACH monkey in monkey_list
```

IF monkey.name EQUALS TO name

DISPLAY "This Monkey is already in our system"

**END IF** 

**RETURN** 

END FOR

DISPLAY "Adding Monkey:" ADD name

DISPLAY "What is the Monkey's species?"

**READ input ASSING species** 

IF species IS NOT "capuchin", "guenon", "macaque", "marmoset", "squirrel monkey", "tamarin"

DISPLAY "This monkey species is not allowed. Please choose another."

RETURN

**END IF** 

DISPLAY "Species:" ADD species

DISPLAY "What is the Monkey's gender?"

READ input ASSIGN gender

DISPLAY "Gender:" ADD gender

DISPLAY "What is the Monkey's age?"

READ input ASSIGN age

DISPLAY "Age:" ADD age

DISPLAY "What is the Monkey's weight?"

READ input ADD weight

DISPLAY "Weight:" ADD weight

DISPLAY "What is the Monkey's tail length?"

READ input ADD tail\_length

DISPLAY "Tail Length:" ADD tail\_length

DISPLAY "What is the Monkey's height?"

READ input ASSIGN height

DISPLAY "Height:" ADD height

DISPLAY "What is the Monkey's body length?"

READ input ASSIGN body\_length

DISPLAY "Body Length:" ADD body\_length

DISPLAY "What is the Monkey's torso length?"

READ input ASSIGN torso\_length

DISPLAY "Torso Length:" ADD torso\_length

DISPLAY "What is the Monkey's skull length?"

READ input ASSIGN skull\_length

DISPLAY "Skull Length:" ADD skull\_length

DISPLAY "What is the Monkey's neck length?"

READ input ASSIGN neck\_length

DISPLAY "Neck Length:" ADD neck\_length

DISPLAY "When was the Monkey Acquired? Format: mm-dd-yyyy"
READ input ASSIGN acquisition\_date
DISPLAY "Monkey Acquired:" ADD acquisition\_date

DISPLAY "What Country did the Monkey come from?"

READ input ASSIGN acquisition\_country

DISPLAY "Country of Origin:" ADD acquisition\_country

DISPLAY "What is the Monkey's training status?"

DISPLAY "Phase I, Phase II, Phase III, Phase IV, Phase V, or In Service"

READ input ASSIGN training\_status

DISPLAY "Training Status:" ADD training\_status

DISPLAY "Has this Monkey been reserved? (True or False)"
READ input ASSIGN reserved\_temp
DISPLAY "Reservation Status:" ADD reserved\_temp
ASSIGN reserved TO reserved\_temp.lower() EQUALS 'true'

DISPLAY "What country is the Monkey in service?"

READ input ASSIGN in\_service\_country

DISPLAY "Country of Service:" ADD in\_service\_country

CREATE monkey3 AS Monkey ASSIGN name, species, gender, age, weight, tail\_length, height, body\_length, torso\_length, skull\_length, neck\_length, acquisition\_date, acquisition\_country, training\_status, reserved, in\_service\_country

APPEND monkey3 TO monkey\_list
DISPLAY "New Monkey" ADD name ADD "added!"

## Pseudocode for initialize.py

FROM dog IMPORT Dog FROM monkey IMPORT Monkey

FUNCTION initialize dog list()

CREATE dog1 AS Dog ASSIGN name, breed, gender, age, weight, acquisition\_date, acquisition\_country, training\_status, reserved, in\_service\_country

CREATE dog2 AS Dog ASSIGN name, breed, gender, age, weight, acquisition date, acquisition\_country, training\_status, reserved, in\_service\_country

CREATE dog3 AS Dog ASSIGN name, breed, gender, age, weight, acquisition date, acquisition\_country, training\_status, reserved, in\_service\_country

ADD dog1, dog2, dog3 TO dog\_list

FUNCTION initialize monkey list()

CREATE monkey1 AS Monkey ASSIGN name, species, gender, age, weight, tail\_length, height, body\_length, torso\_length, skull\_length, neck\_length, acquisition\_date, acquisition\_country, training\_status, reserved, in\_service\_countr

CREATE monkey2 AS Monkey ASSIGN name, species, gender, age, weight, tail\_length, height, body\_length, torso\_length, skull\_length, neck\_length, acquisition\_date, acquisition\_country, training\_status, reserved, in\_service\_country

ADD monkey1, monkey2 TO monkey\_list

#### Pseudocode for print\_animals.py

FUNCTION print\_animals(choice, dog\_list, monkey\_list)

IF choice EQUALS TO 1

DISPLAY "The method printAnimals for dogs needs to be implemented"

ELSE IF choice EQUALS TO 2

DISPLAY "The method printAnimals for monkeys needs to be implemented"

ELSE IF choice EQUALS TO 3

**DISPLAY** "Getting Available Dogs:"

FOR EACH dog IN dog list

IF dog IS NOT reserved AND dog.training\_status EQUALS "in service" DISPLAY "The dog:" ADD dog.name ADD "is available." DISPLAY dog.name ADD "is from:" ADD dog.acquisition country DISPLAY dog.name ADD "'s current status is:" ADD dog.training\_status

**END IF** 

```
END FOR

DISPLAY "Getting Available Monkeys:"

FOR EACH monkey IN monkey_list

IF monkey IS NOT reserved AND monkey.training_status EQUALS "in service"

DISPLAY "The Monkey:" ADD monkey.name ADD "is available."

DISPLAY monkey.name ADD "is from:" ADD

monkey.acquisition_country

DISPLAY monkey.name ADD "'s current status is:" ADD

monkey.training_status

END IF
```

#### Pseudocode for reserve\_animal.py

**END FOR** 

```
FUNCTION reserve_animal(dog_list, monkey_list)
       DISPLAY "Please enter the animal type you would like to reserve. (Dog or Monkey)"
              READ input ASSIGN animal_type
       IF animal_type EQUALS TO "monkey"
              DISPLAY "Please enter the service country:"
                      READ input ASSIGN in service country
              FOR EACH monkey IN monkey list
                      IF monkey.in service country EQUALS TO in service country
                             IF monkey.reserved EQAULS TO "yes"
                                    DISPLAY "There are no monkeys available in" ADD
                             in service country
                                    RETURN
                             END IF
                      ELSE
                             DISPLAY "Monkey" ADD monkey.name ADD "is available in" ADD
                      in_service_country
                             DISPLAY "Would you like to reserve it? (Enter: Yes or No)"
                                    READ input ASSIGN response temp
                             IF response_temp EQUALS TO "yes"
                                    ASSIGN monkey.reserved TO True
                                    DISPLAY "Monkey" ADD monkey.name ADD "has been
                             reserved!"
                                    RETURN
                             ELSE IF response_temp EQUALS TO "no"
                                    DISPLAY "Leaving monkey" ADD monkey.name ADD
                             "unreserved."
                                    RETURN
                             END IF
                      END IF
              END FOR
       ELSE IF animal type EQAULS TO "dog"
              DISPLAY "Please enter the service country:"
                      READ input ASSING in_service_country
              FOR EACH dog IN dog list
                      IF dog.in_service_country EQUALS TO in_service_country
                             IF dog.reserved EQUALS TO "yes"
```

```
DISPLAY "There are no dogs available in" ADD
                     in_service_country
RETURN
                     ELSE
                            DISPLAY "Dog" ADD dog.name ADD "is available in" ADD
                     in_service_country
                     END IF
                     DISPLAY "Would you like to reserve it? (Enter: Yes or No)"
                            READ input ASSIGN response_temp
                     IF response_temp EQUALS TO "yes"
                            ASSIGN dog.reserved TO True
                            DISPLAY "Dog" ADD dog.name ADD "has been reserved!"
                            RETURN
                     ELSE IF response_temp EQUALS TO "no"
                            DISPLAY "Leaving dog" ADD dog.name ADD "unreserved."
                             RETURN
                     END IF
              END IF
      END FOR
END IF
```