Pseudocode for driver.py (ENHANCED)

FROM typing IMPORT Dict FROM dog.py IMPORT Dog FROM monkey.py IMPORT Monkey FROM reserve_animal.py IMPORT ReserveAnimal IMPORT intake.py IMPORT initialize.py IMPORT print_animals.py IMPORT search.py

CLASS Driver:

INIT dog_dict DICTIONARY INIT monkey_dict DICTIONARY

METHOD main()

INIT scnr AS input FROM initialize INIT initialize_dog_dict FROM initialize INIT initialize_monkey_dict

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 ReserveAnimal 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 7
DISPLAY "Searching Database"
FROM search CALL search_animal()

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 "[7] Search for animal, and update status" 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 (ENHANCED)

FROM dog.py IMPORT Dog FROM monkey.py IMPORT Monkey FROM validation IMPORT Validation

FUNCTION intake_new_dog(dog_dict)

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

FROM Validation INIT null_validation ASSIGN TO name

FOR EACH dog in dog_dict

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")

FROM Validation INIT null_validation ASSIGN TO breed

DISPLAY "Breed:" ADD breed

DISPLAY "What is the dog's gender?"

READ input ASSIGN gender

FROM Validation INIT gender_validation ASSIGN TO gender

DISPLAY "Gender:" ADD gender

DISPLAY "What is the dog's age?"

READ input ASSIGN age
FROM Validation INIT positive_digit_validation ASSIGN TO age
DISPLAY "Age:" ADD age

DISPLAY "What is the dog's weight?"
READ input ASSIGN weight
FROM Validation INIT float_validation ASSIGN TO weight
DISPLAY "Weight:" ADD weight

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

READ input ASSIGN acquisition_date
FROM Validation INIT date_validation ASSIGN TO acquisition_date
DISPLAY "Dog Acquired:" ADD acquisition_date

DISPLAY "What Country did the dog come from?"

READ input ASSIGN acquisition_country

FROM Validation INIT null_validation ASSIGN TO acquisition_country

DISPLAY "Country of Origin:" ADD acquisition_country

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

READ input ASSIGN training_status

FROM Validation INIT status_validation ASSIGN TO training_status

DISPLAY "Training Status:" ADD training_status

DISPLAY "Has this dog been reserved? (True or False)"
READ input ASSIGN reserved
FROM Validation INIT boolean_validation ASSIGN TO reserved
DISPLAY "Reservation Status:" ADD reserved

DISPLAY "What country is the dog in service?"

READ input ASSIGN in_service_country

FROM Validation INIT null_validation ASSIGN TO in_service_country

DISPLAY "Country of Service:" ADD in_service_country

CREATE dog AS Dog ASSIGN name, breed, gender, age, weight, acquisition_date, acquisition_country, training_status, reserved, in_service_country

APPEND dog TO dog_dict
DISPLAY "New Dog" ADD name ADD "added!"

FUNCTION intake_new_monkey(monkey_dict)
DISPLAY "What is the Monkey's name?"
READ input ASSIGN name

FROM Validation INIT null validation ASSIGN TO name

FOR EACH monkey in monkey_dict

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 ASSIGN species

FROM Validation INIT species_validation ASSIGN TO species

DISPLAY "Species:" ADD species

DISPLAY "What is the Monkey's gender?"

READ input ASSIGN gender

FROM Validation INIT gender_validation ASSIGN TO gender

DISPLAY "Gender:" ADD gender

DISPLAY "What is the Monkey's age?"
READ input ASSIGN age
FROM Validation INIT positive_digit_validation ASSIGN TO age
DISPLAY "Age:" ADD age

DISPLAY "What is the Monkey's weight?"

READ input ADD weight

FROM Validation INIT float_validation ASSIGN TO weight

DISPLAY "Weight:" ADD weight

DISPLAY "What is the Monkey's tail length?"
READ input ADD tail_length
FROM Validation INIT positive_digit_validation ASSIGN TO tail_length
DISPLAY "Tail Length:" ADD tail_length

DISPLAY "What is the Monkey's height?"

READ input ASSIGN height
FROM Validation INIT positive_digit_validation ASSIGN TO height
DISPLAY "Height:" ADD height

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

READ input ASSIGN body_length
FROM Validation INIT positive_digit_validation ASSIGN TO body_length
DISPLAY "Body Length:" ADD body_length

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

READ input ASSIGN torso_length
FROM Validation INIT positive_digit_validation ASSIGN TO torso_length
DISPLAY "Torso Length:" ADD torso_length

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

READ input ASSIGN skull_length
FROM Validation INIT positive_digit_validation ASSIGN TO skull_length
DISPLAY "Skull Length:" ADD skull_length

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

READ input ASSIGN neck_length

FROM Validation INIT positive_digit_validation ASSIGN TO neck_length

DISPLAY "Neck Length:" ADD neck_length

DISPLAY "When was the Monkey acquired? Format: mm-dd-yyyy"
READ input ASSIGN acquisition_date
FROM Validation INIT date_validation ASSIGN TO acquisition_date
DISPLAY "Monkey Acquired:" ADD acquisition_date

DISPLAY "What Country did the Monkey come from?"

READ input ASSIGN acquisition_country
FROM Validation INIT null_validation ASSIGN TO acquisition_country
DISPLAY "Country of Origin:" ADD acquisition_country

DISPLAY "What is the Monkey's training status?"
READ input ASSIGN training_status
FROM Validation INIT status_validation ASSIGN TO training_status
DISPLAY "Training Status:" ADD training_status

DISPLAY "Has this Monkey been reserved? (True or False)"
READ input ASSIGN reserved
FROM Validation INIT boolean_validation ASSIGN TO reserved
DISPLAY "Reservation Status:" ADD reserved

DISPLAY "What country is the Monkey in service?

READ input ASSIGN in_service_country

FROM Validation INIT null_validation ASSIGN TO in_service_country

DISPLAY "Country of Service:" ADD in_service_country

CREATE monkey 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 monkey TO monkey_dict
DISPLAY "New Monkey" ADD name ADD "added!"

Pseudocode for initialize.py (ENHANCED)

IMPORT dog.py IMPORT monkey.py

FUNCTION initialize_dog_dict()

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_dict

FUNCTION initialize monkey dict()

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_dict

Pseudocode for print_animals.py (ENHANCED)

```
FUNCTION print animals(choice, dog dict, monkey dict)
       IF choice EQUALS TO 1
              DISPLAY "Listing all Dogs."
              IF dog dict EQUALS NOTHING
                     DISPLAY "No dogs available in the system."
              ELSE
                     FOR dog IN dog dict
                             DISPLAY "Name:" ADD dog.name
                             DISPLAY "Breed" ADD dog.breed
                             DISPLAY "Gender" ADD dog.gender
                             DISPLAY "Age:" ADD dog.age
                             DISPLAY "Weight" ADD dog.weight
                             DISPLAY "Acquisition Date:" ADD dog.acquisition_date
                             DISPLAY "Acquisition Country:" ADD dog.acquisition country
                             DISPLAY "Training Status:" ADD dog.training status
                             DISPLAY "Reserved:" ADD IF dog.reserved EQUALS true
                                                          DISPLAY "Yes"
                                                   ELSE
                                                          DISPLAY "No"
                                                   END IF
                             DISPLAY "In Service Country:" ADD dog.in service country
                     END FOR
              END IF
       ELSE IF choice EQUALS TO 2
              DISPLAY "Listing all Monkeys"
              IF monkey dict EQUALS NOTHING
                     DISPLAY "No Monkeys available in the system."
              ELSE
                     FOR monkey IN monkey dict
                             DISPLAY "Name:" ADD monkey.name
                             DISPLAY "Species" ADD monkey.species
                             DISPLAY "Gender" ADD monkey.gender
                             DISPLAY "Age:" ADD monkey.age
                             DISPLAY "Weight" ADD monkey.weight
                             DISPLAY "Tail Length:" ADD monkey tail length
                             DISPLAY "Height" ADD monkey.height
                             DISPLAY "Body Length:" ADD monkey.body_length
                             DISPLAY "Torso Length:" ADD monkey.torso_length
                             DISPLAY "Skull Length:" ADD monkey.skull length
                             DISPLAY "Neck Length:" ADD monkey.neck length
                             DISPLAY "Acquisition Date:" ADD dog.acquisition date
                             DISPLAY "Acquisition Country:" ADD dog.acquisition country
                             DISPLAY "Training Status:" ADD dog.training status
                             DISPLAY "Reserved:" ADD IF dog.reserved EQUALS true
                                                          DISPLAY "Yes"
                                                   ELSE
                                                          DISPLAY "No"
                                                   END IF
```

DISPLAY "In Service Country:" ADD dog.in_service_country

```
END FOR
       END IF
ELSE IF choice EQUALS TO 3
       DISPLAY "Getting Available Dogs:"
       FOR EACH dog IN dog_dict
              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 dict
              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
       END FOR
```

Pseudocode for reserve_animal.py (ENHANCED)

FROM validation IMPORT Validation

```
CLASS ReserveAnimal
       METHOD reserve animal(dog dict, monkey dict)
              DISPLAY "Please enter the animal type you would like to reserve. (Dog or Monkey)"
                      READ input ASSIGN animal_type
              FROM Validation INIT animal type validation ASSIGN TO animal type
              IF animal_type EQUALS TO "monkey"
                      DISPLAY "Please enter the service country:"
                             READ input ASSIGN in service country
                      FROM Validation INIT null validation ASSIGN TO in service country
                      FOR EACH monkey IN monkey_dict
                             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?
                                            READ input ASSIGN response reserve
```

```
FROM Validation INIT yes_no_validation ASSIGN TO
                             response reserve
                             FROM ReserveAnimal INIT reserved response ASSIGN TO
                             response reserve
                     END IF
              END FOR
       ELSE IF animal type EQAULS TO "dog"
              DISPLAY "Please enter the service country:"
                     READ input ASSIGN in_service_country
              FROM Validation INIT null validation ASSIGN TO in service country
              FOR EACH dog IN dog dict
                     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 reserve
                             FROM Validation INIT yes no validation ASSIGN TO
                             response reserve
                             FROM ReserveAnimal INIT reserved response ASSIGN TO
                             response reserve
                     END IF
              END FOR
       END IF
METHOD reserved response (response, animal type, animal)
       IF response EQUALS TO yes
              ASSIGN animal TO True
              DISPLAY animal type ADD animal.name ADD "has been reserved!"
       ELSE IF response EQUALS TO no
              DISPLAY "Leaving" ADD animal type ADD animal.name ADD "unreserved"
              RETURN
       END IF
```

Pseudocode for search.py (ADDED)

FROM typing IMPORT Dict FROM dog IMPORT Dog FROM monkey IMPORT Monkey FROM validation IMPORT Validation

FUNCTION search animal

DISPLAY "Please enter the animal type you would like to search for. (Dog or Monkey)" READ input ASSIGN animal_type

FROM Validation INIT animal_type_validation ASSIGN to animal_type

DISPLAY "Enter the name of the animal you want to search for:"

READ input ASSIGN name FROM Validation INIT null validation ASSIGN TO name

IF animal_type EQUALS dog

IF name NOT IN dog dict

DISPLAY "The dog named" ADD name ADD "was not found in the system." RETURN

ELSE

ASSIGN dog_dict[name] TO name

DISPLAY "The dog named" ADD name ADD "has been found in the system"

DISPLAY "The current name for the dog is:" ADD name

DISPLAY "The current country for this dog is:" ADD in_service_country

DISPLAY "The current training status for this dog is:" ADD training_status

DISPLAY "What would you like to update for this dog? (Enter: Name, Country, or

Training)"

READ input ASSIGN option

FROM Validation INIT name_country_training_validation ASSIGN option

IF option EQUALS name

DISPLAY "Please enter the new name for" ADD name

READ input ASSIGN new_name

FROM Validation INIT null_validation ASSIGN new_name

INSERT new_name INTO dog_dict[name]

DISPLAY "Dog's name has been changed to:" ADD new_name

ELSE IF options EQUALS country

DISPLAY "Please enter the new country for" ADD name

READ input ASSIGN new_country

FROM Validation INIT null_validation ASSIGN new_country INSERT new_country INTO dog_dict[in_service_country]

DISPLAY name ADD "is now assigned to the country:" ADD

new_country

ELSE IF options EQUALS training

DISPLAY "Please enter the new training status for" ADD name

READ input ASSIGN new_training_status

FROM Validation INIT null_validation ASSIGN new_training_status

INSERT new_training_status INTO dog_dict[training_status]

DISPLAY name ADD "is now assigned to the status:" ADD

new training status

END IF

END IF

IF animal_type EQUALS monkey

IF name NOT IN monkey_dict

DISPLAY "The monkey named" ADD name ADD "was not found in the system." RETURN

ELSE

ASSIGN monkey dict[name] TO name

DISPLAY "The monkey named" ADD name ADD "has been found in the system"

DISPLAY "The current name for the monkey is:" ADD name

DISPLAY "The current country for this monkey is:" ADD in_service_country

DISPLAY "The current training status for this monkey is:" ADD training status

DISPLAY "What would you like to update for this monkey? (Enter: Name,

Country, or Training)"

READ input ASSIGN option

FROM Validation INIT name_country_training_validation ASSIGN option

IF option EQUALS name

DISPLAY "Please enter the new name for" ADD name

READ input ASSIGN new name

FROM Validation INIT null_validation ASSIGN new_name

INSERT new_name INTO monkey_dict[name]

DISPLAY "Monkey's name has been changed to:" ADD new_name

ELSE IF options EQUALS country

DISPLAY "Please enter the new country for" ADD name

READ input ASSIGN new_country

FROM Validation INIT null_validation ASSIGN new_country INSERT new_country INTO monkey_dict[in_service_country] DISPLAY name ADD "is now assigned to the country:" ADD

new_country

ELSE IF options EQUALS training

DISPLAY "Please enter the new training status for" ADD name

READ input ASSIGN new_training_status

FROM Validation INIT null_validation ASSIGN new_training_status INSERT new training status INTO monkey dict[training status]

DISPLAY name ADD "is now assigned to the status:" ADD

new_training_status

END IF

END IF

END IF

Pseudocode for validation.py (ADDED)

IMPORT re

CLASS Validation

METHOD null validation(value, variable)

WHILE True

IF value EQUALS TO NOTHING

BREAK

DISPLAY variable ADD "cannot be empty. Please enter a valid" ADD

variable

READ input ASSIGN TO value

RETURN value

METHOD positive_digit_validation(value, variable)

WHILE True

IF value IS numeric AND value GREATER THAN 0
BREAK

DISPLAY "Please enter a valid positive number for" ADD variable RETURN value

METHOD gender_validation(value)

WHILE True

IF value IS NOT EQUAL TO male OR female

BREAK

DISPLAY "Please enter Male or Female for gender:"

READ input ASSIGN TO value

RETURN value

METHOD float_validation(value, variable)

WHILE True

TRY

CONVERT value TO float ASSIGN value_float

IF value float LESS THAN 0

BREAK

DISPLAY variable ADD "must be a positive number:"

READ input ASSIGN TO value

EXCEPT ValueError

DISPLAY "Please enter a valid number for" ADD variable

RETURN value

METHOD date_validation(value)

WHILE True

IF value DOES NOT MATCH mm-dd-yyyy

BREAK

DISPLAY "Please Enter a valid date in the format [mm-dd-yyyy]

RETURN value

METHOD status_validation(value)

ASSIGN "Phase I", "Phase II", "Phase IV", "Phase V", "In Service"

TO valid status

WHILE True

CONVERT ALL status IN valid status TO lowercase ASSIGN TO

normalized_status

IF value EQUALS TO normalized_status

CONVERT normalized_status TO capitalcase ASSIGN TO value

BREAK

DISPLAY "Please enter a valid training status" ADD valid status

READ input ASSIGN TO value

RETURN value

```
METHOD boolean_validation(value)
```

WHILE True

IF value IS EQUAL TO male OR female

CONVERT value TO boolean ASSIGN to reserved

RETURN reserved

DISPLAY "Please enter True or False for reserved status" READ input ASSIGN TO value

METHOD species_validation(value)

ASSIGN "capuchin", "guenon", "macaque", "marmoset", "squirrel monkey", "tamarin" TO valid species

WHILE True

IF value EQUALS TO species IN valid_species

BREAK

DISPLAY "Please enter a valid monkey species" ADD valid_species READ input ASSIGN TO value

RETURN value

METHOD animal_type_validation(value)

ASSIGN "monkey", "dog" TO valid_animal

WHILE True

IF value EQUALS TO animal IN valid_animal

BREAK

DISPLAY "Please enter a valid animal type" ADD valid_animal READ input ASSIGN TO value

RETURN value

METHOD yes_no_validation(value)

ASSIGN "yes", "no" TO valid response

WHILE True

IF value EQUALS TO response IN valid response

BREAK

DISPLAY "Please enter a valid response" ADD valid_ response READ input ASSIGN TO value

RETURN value

METHOD name_country_training_validation(value)

ASSIGN "name", "country", "training" TO valid option

WHILE True

IF value EQUALS TO response IN valid_ option

BREAK

DISPLAY "Please enter a valid response" ADD valid_ option READ input ASSIGN TO value

RETURN value