

Project 06: Primates MVC

Github repo of this project:

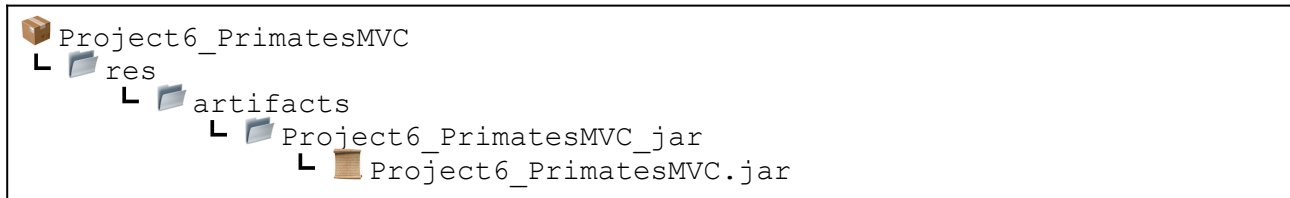
<https://github.com/jhan125/CS5004-5005>

How to run this program

Check README.md or get detailed instructions with more screenshots:

https://www.jetbrains.com/help/idea/compiling-applications.html#run_packaged_jar

You can also find the `.jar` file from this path:



Screenshots of running my `.jar` file

Tab Appearances

Tab1: Register for a new monkey

Primates Sanctuary

Register for a new monkey | Move an existing monkey | Treat an unhealthy monkey | Produce a monkey list

To register a monkey, please give a name to this monkey and then enter the following fields in correct order: name, species, sex, size, weight(double), age(int), favorite food, whether is healthy(true/false)

NOTICE:

All monkeys must have different names. The program will show you a warning message if you give two monkeys the same name.
For monkey's SPECIES, you must only choose from these 8 kinds: DRILL, GUEREZA, HOWLER, MANGABEY, SAKI, SPIDER, SQUIRREL, TAMARIN.
For monkey's SEX, you must only choose from FEMALE or MALE.
For monkey's SIZE, you must only choose from LARGE, MEDIUM, or SMALL.
For monkey's WEIGHT, you must only enter POSITIVE double numbers.
For monkey's AGE, you must only enter NON-NEGATIVE integer numbers.
For monkey's FAVORITE FOOD, you must only choose from EGGS, FRUITS, INSECTS, LEAVES, NUTS, SEEDS, or TREE_SAP.

drill
male
small

eggs
false

Register

Tab2: Move an existing monkey

Primates Sanctuary

Register for a new monkeyMove an existing monkeyTreat an unhealthy monkeyProduce a monkey list

To move a monkey, please choose the name of the monkey you want to move.
NOTICE:
When monkeys first arrive at the sanctuary, they must first move to ISOLATION.
Therefore, first-arrived monkeys are ALREADY in the ISOLATION and you don't need to move them again.
If the monkey you want to move does not exist, the program will show you a warning message.
If the monkey you want to move already exists in that housing, the program will show you a warning message.
If you want to move a monkey to a full ISOLATION, the program will show you a warning message.
If you want to move an unhealthy monkey to ENCLOSURE, the program will show you a warning message.

Sally

Move this monkey to ISOLATION

Move this monkey to ENCLOSURE

Tab3: Treat an unhealthy monkey

Primates Sanctuary

Register for a new monkeyMove an existing monkeyTreat an unhealthy monkeyProduce a monkey list

To move a monkey to ENCLOSURE, you have to treat this monkey and make it healthy.
NOTICE:
To treat a monkey, choose the monkey by name you want to give medical treatment.
If the monkey you want to treat is already healthy, the program will show you a warning message.

Sally

Treat this Monkey

Tab4: Produce a monkey list

The screenshot shows the 'Produce a monkey list' tab selected in the 'Primates Sanctuary' application. The interface includes a title bar with standard window controls and four tabs: 'Register for a new monkey', 'Move an existing monkey', 'Treat an unhealthy monkey', and 'Produce a monkey list'. The main content area contains the following text:

To print a monkey list, you have to first choose the housing type for monkeys.

NOTICE:
If there's no monkey in that housing, the program will show you a warning message.

Click the button below to get an alphabetical list (by name) of all monkeys housed in the SANCTUARY.

Click the button below to get an alphabetical list (by name) of all monkeys housed in the ISOLATION.

Choose the specific species to get a list of all monkeys housed in that ENCLOSURE.
For every enclosure, there's a list for each individual monkey that is currently housing there.
For each individual monkey, the list includes their name, sex, and favorite food.

Below the text is a search bar containing the text 'drill' and a blue search icon. At the bottom of the window is a button labeled 'Get all monkeys in the ENCLOSURE'.

Sample Steps

1: Register for some new monkeys

Enter the fields following the correct order as instructed.
You will see a window showing your successful registration.

The screenshot shows the 'Register for a new monkey' tab selected in the 'Primates Sanctuary' application. The main content area contains the following text:

To register a monkey, please give a name to this monkey and then enter the following fields in correct order: name, species, sex, size, weight(double), age(int), favorite food, whether is healthy(true/false)

NOTICE:
All monkeys must have different names. The program will show you a warning message if you give two monkeys the same name.
For monkey's SPECIES, you must only choose from these 8 kinds: DRILL, GUEREZA, HOWLER, MANGABEY, SAKI, SPIDER, SQUIRREL, TAMARIN.
For monkey's SEX, you must only choose from FEMALE or MALE.
For monkey's SIZE, you must only choose from LARGE or SMALL.
For monkey's WEIGHT, you must only enter POSITIVE.
For monkey's AGE, you must only enter NON-NEGATIVE.
For monkey's FAVORITE FOOD, you must only choose from FRUITS, LEAVES, or TREE_SAP.

Below the text is a form with the following fields:

- Name: Amy
- Species: guereza
- Sex: female
- Size: small
- Weight: 4
- Age: 4
- Favorite Food: fruits
- Healthy: true

At the bottom of the form is a button labeled 'Register'.

An 'Information' dialog box is displayed in the center of the screen, showing a monkey icon and the message: 'You registered a monkey successfully!'. The dialog box has an 'OK' button.

Or you will see a warning window because of your invalid input (which means you have to enter the input by following the instructions in the NOTICE).

The screenshot shows the 'Primates Sanctuary' application window. At the top, there are four tabs: 'Register for a new monkey', 'Move an existing monkey', 'Treat an unhealthy monkey', and 'Produce a monkey list'. The 'Register for a new monkey' tab is active. Below the tabs, there is a text area with instructions: 'To register a monkey, please give a name to this monkey and then enter the following fields in correct order: name, species, sex, size, weight(double), age(int), favorite food, whether is healthy(true/false)'. Below this is a 'NOTICE' section with several lines of text: 'All monkeys must have different names. The program will show you a warning message if you give two monkeys the same name.', 'For monkey's SPECIES, you must only choose from these 8 kinds: DRILL, GUEREZA, HOWLER, MANGABEY, SAKI, SPIDER, SQUIRREL, TAMARIN.', 'For monkey's SEX, you must only choose from FEMALE or MALE.', 'For monkey's SIZE, you must only choose from LARGE, MEDIUM, or SMALL.', 'For monkey's WEIGHT, you must only enter POSITIVE double values.', 'For monkey's AGE, you must only enter NON-NEGATIVE integer values.', and 'For monkey's FAVORITE FOOD, you must only choose from EGGS, NUTS, SEEDS, or TREE_SAP.' Below the notice, there are input fields for 'name', 'species', 'sex', 'size', 'weight', 'age', 'favorite food', and 'whether is healthy'. The 'name' field contains 'm', 'species' contains 'drill', 'sex' contains 'male', 'size' contains 'small', 'weight' contains 'r', 'age' contains 'r', 'favorite food' contains 'eggs', and 'whether is healthy' contains 'false'. A 'Register' button is at the bottom left. A warning window is overlaid on top of the form, titled 'Warning', with a yellow triangle icon and the text 'For input string: "r"'. An 'OK' button is at the bottom right of the warning window.

Or you will see a warning window because the monkey with the same name already exists in the sanctuary (which means you have to register this monkey with another name).

The screenshot shows the 'Primates Sanctuary' application window. At the top, there are four tabs: 'Register for a new monkey', 'Move an existing monkey', 'Treat an unhealthy monkey', and 'Produce a monkey list'. The 'Register for a new monkey' tab is active. Below the tabs, there is a text area with instructions: 'To register a monkey, please give a name to this monkey and then enter the following fields in correct order: name, species, sex, size, weight(double), age(int), favorite food, whether is healthy(true/false)'. Below this is a 'NOTICE' section with several lines of text: 'All monkeys must have different names. The program will show you a warning message if you give two monkeys the same name.', 'For monkey's SPECIES, you must only choose from these 8 kinds: DRILL, GUEREZA, HOWLER, MANGABEY, SAKI, SPIDER, SQUIRREL, TAMARIN.', 'For monkey's SEX, you must only choose from FEMALE or MALE.', 'For monkey's SIZE, you must only choose from LARGE, MEDIUM, or SMALL.', 'For monkey's WEIGHT, you must only enter POSITIVE double values.', 'For monkey's AGE, you must only enter NON-NEGATIVE integer values.', and 'For monkey's FAVORITE FOOD, you must only choose from EGGS, NUTS, SEEDS, or TREE_SAP.' Below the notice, there are input fields for 'name', 'species', 'sex', 'size', 'weight', 'age', 'favorite food', and 'whether is healthy'. The 'name' field contains 'Amy', 'species' contains 'guereza', 'sex' contains 'female', 'size' contains 'small', 'weight' contains '4', 'age' contains '5', 'favorite food' contains 'eggs', and 'whether is healthy' contains 'false'. A 'Register' button is at the bottom left. A warning window is overlaid on top of the form, titled 'Warning', with a yellow triangle icon and the text 'This monkey already exists in Sanctuary, so it can't be added.' An 'OK' button is at the bottom right of the warning window.

Or you will see a window showing a warning because there's no room in the sanctuary.

Primates Sanctuary

Register for a new monkey | Move an existing monkey | Treat an unhealthy monkey | Produce a monkey list

To register a monkey, please give a name to this monkey and then enter the following fields in correct order: name, species, sex, size, weight(double), age(int), favorite food, whether is healthy(true/false)

NOTICE:

All monkeys must have different names. The program will show you a warning message if you give two monkeys the same name.
For monkey's SPECIES, you must only choose from these 8 kinds: DRILL, GUEREZA, HOWLER, MANGABEY, SAKI, SPIDER, SQUIRREL, TAMARIN.
For monkey's SEX, you must only choose from FEMALE or MALE.
For monkey's SIZE, you must only choose from small, medium, or large.
For monkey's WEIGHT, you must only enter a number between 1 and 10.
For monkey's AGE, you must only enter a number between 1 and 10.
For monkey's FAVORITE FOOD, you must only choose from BANANA, APPLE, ORANGE, MANGO, PINEAPPLE, or TREE_SAP.

u
drill
male
small
1
1
eggs
false
Register

Warning

There's no more space in Sanctuary, so it can't be added.

OK

If you click the button “Get all monkeys in the SANCTUARY” to print out the monkey list in the sanctuary, you will find there are already 20 monkeys in the sanctuary.

Primates Sanctuary

Register for a new monkey | Move an existing monkey | Treat an unhealthy monkey | Produce a monkey list

To print a monkey list, you have to first choose the housing type for monkeys.

NOTICE:

If there's no monkey in that housing, the program will show you a warning message.

Click the button below to get an alphabetical list (by name) of all monkeys housed in the SANCTUARY.

Get all monkeys in the SANCTUARY

Click the button below to get an alphabetical list (by name) of all monkeys housed in the ISOLATION.

Get all monkeys in the ISOLATION

Choose the specific species to get a list of all monkeys housed in the ENCLOSURE.

For every enclosure, there's a list for each individual monkey.

For each individual monkey, the list includes their name, species, sex, size, weight, age, favorite food, and whether they are healthy.

drill

Get all monkeys in the ENCLOSURE

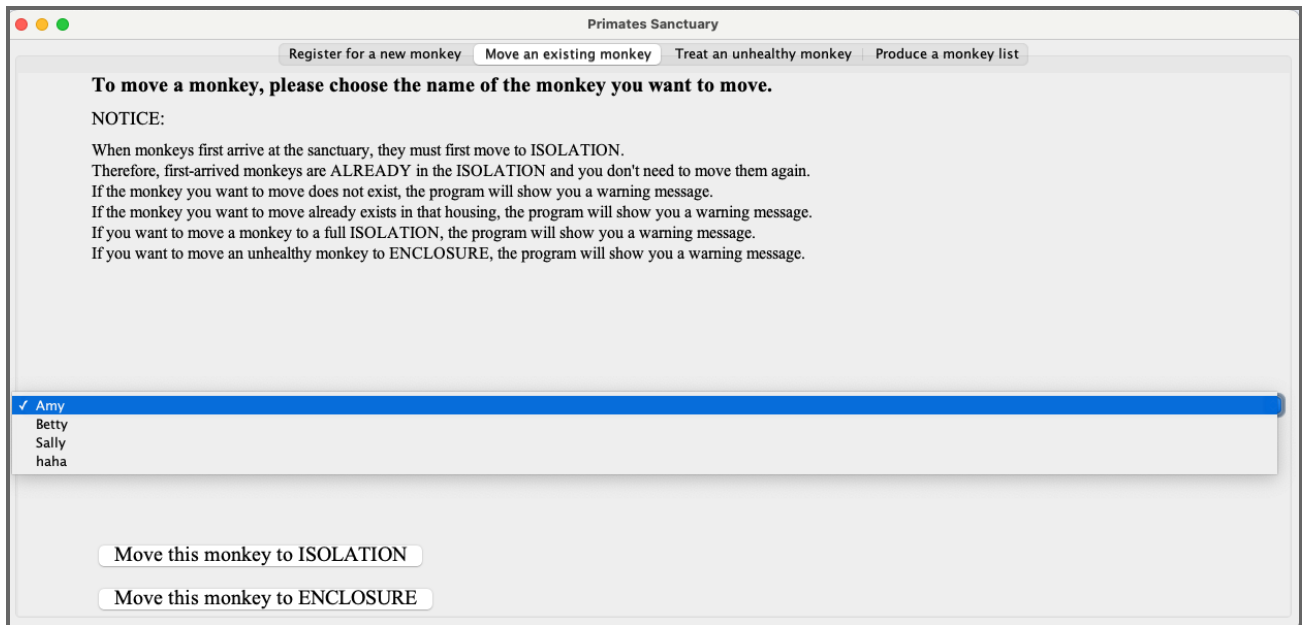
Message

a b c d e f g h i j k l m n o p q r s t

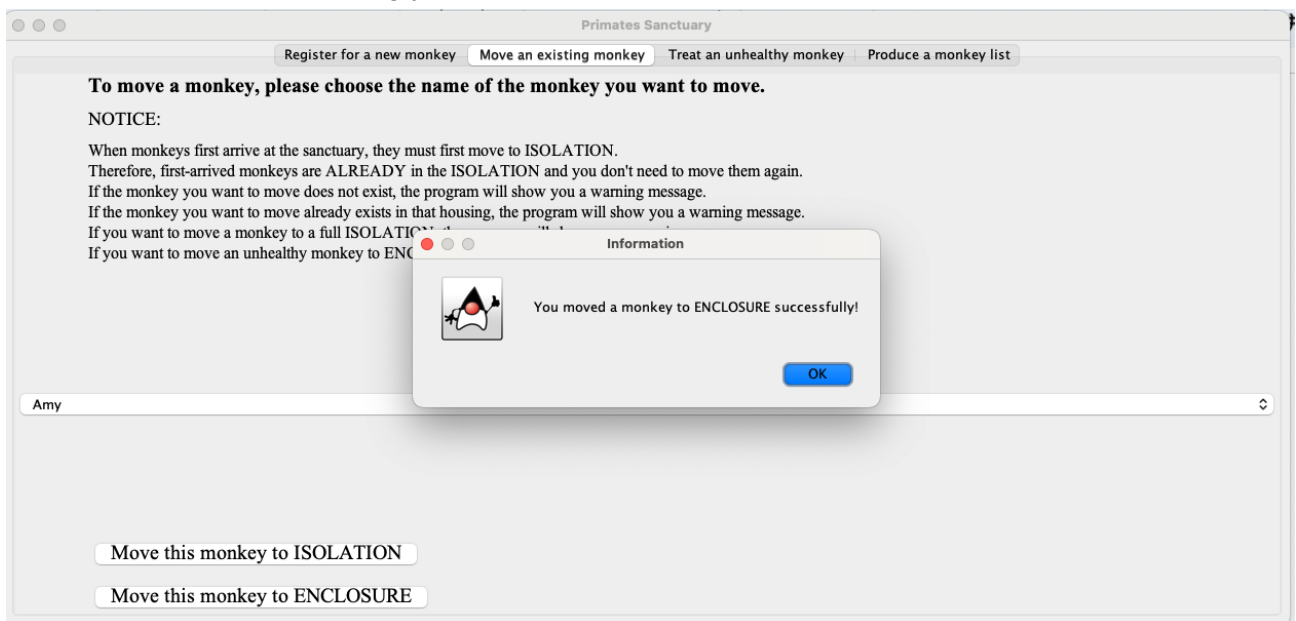
OK

2: Move an existing monkey

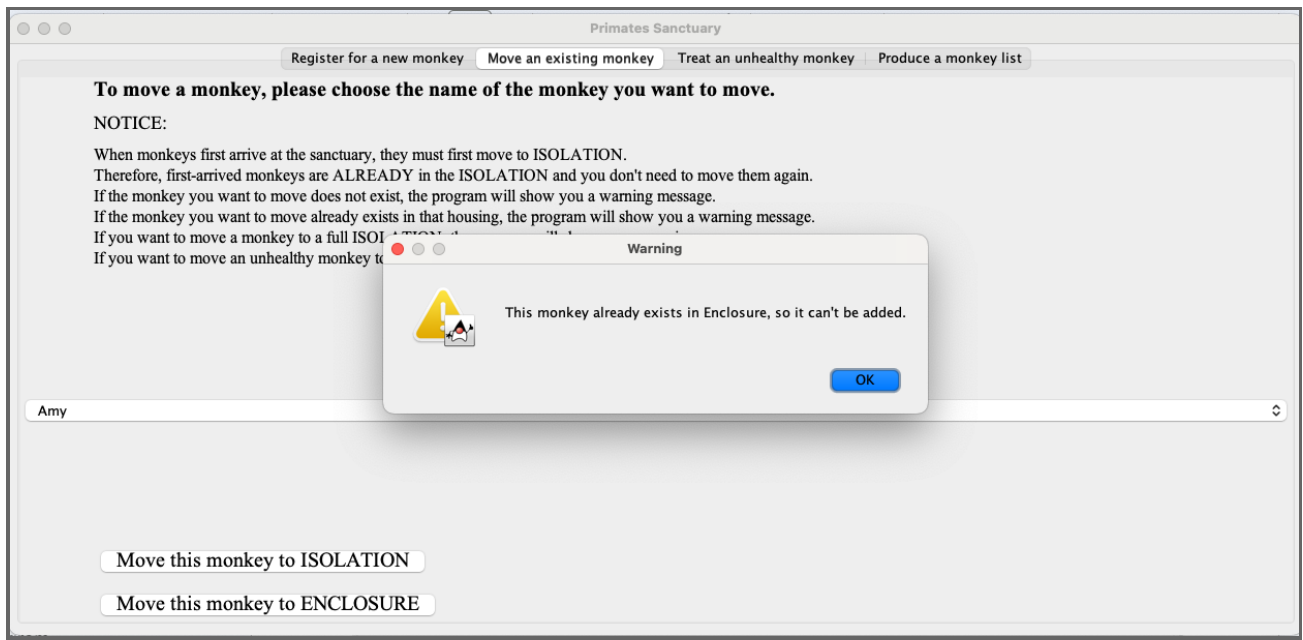
Choose the monkey you want to move.



You will see a window showing your successful move.



Or you will see a warning window because of your invalid action.

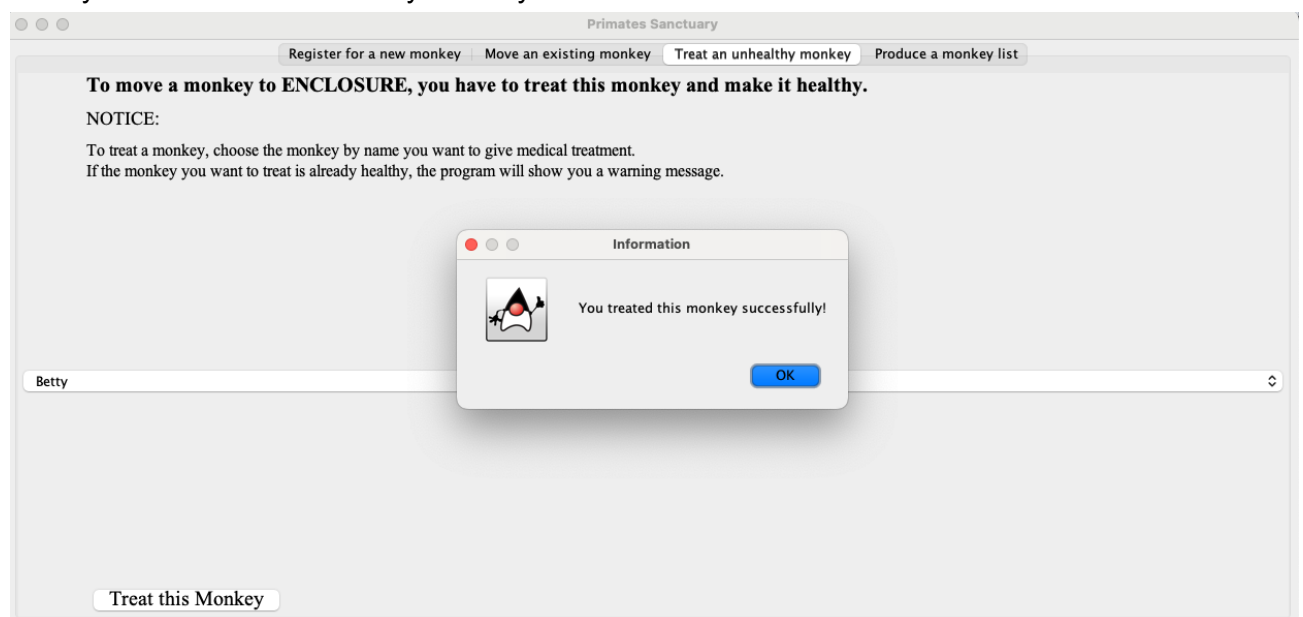


3: Treat an unhealthy monkey

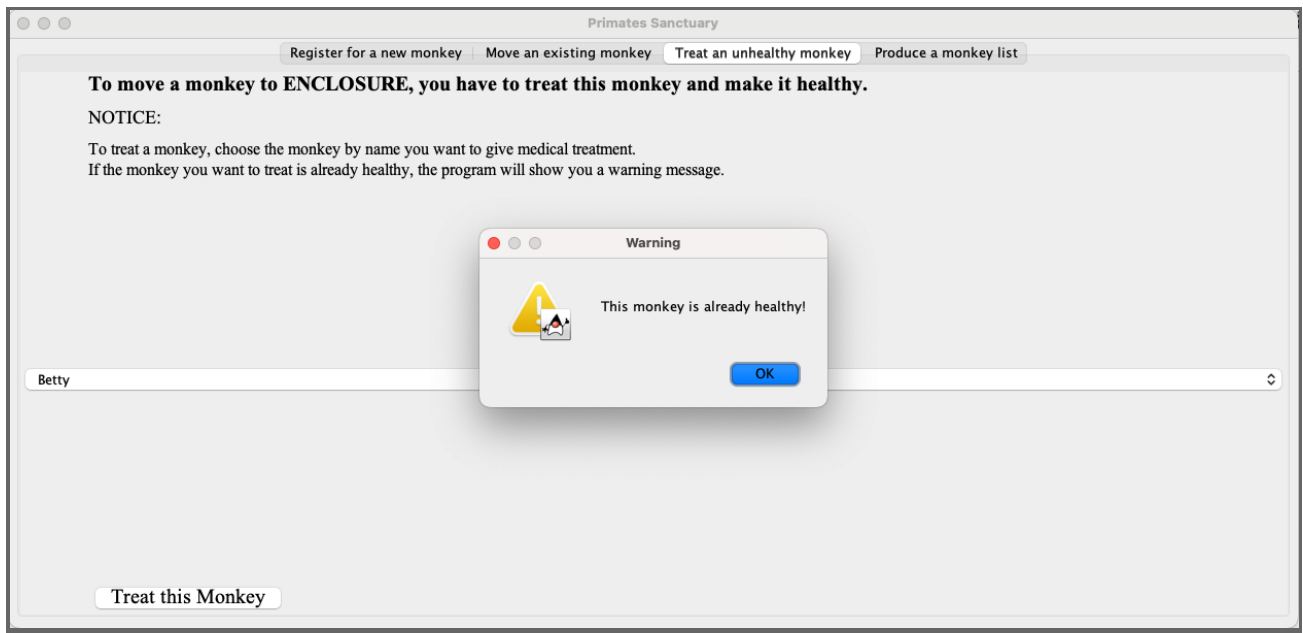
Choose an unhealthy monkey to treat.

You will see a window showing your successful treatment.

Then you can move this healthy monkey to Enclosure



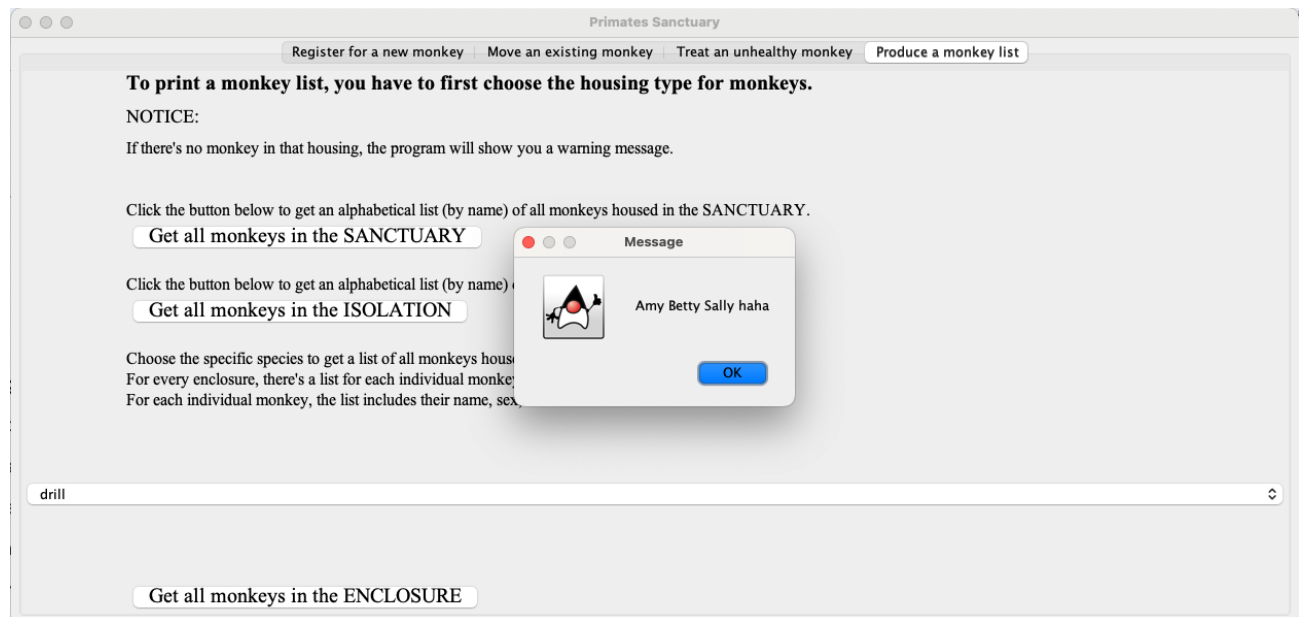
Or you will see a warning window because of your invalid action.



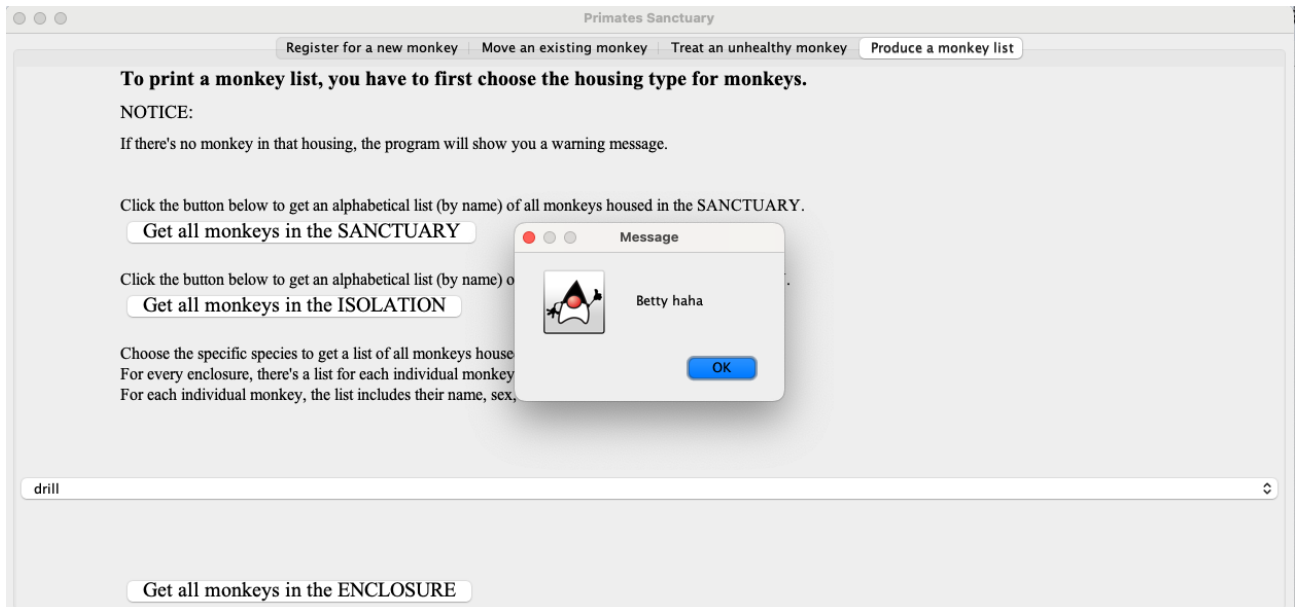
4: Produce a monkey list

Get a monkey list based on housing type.

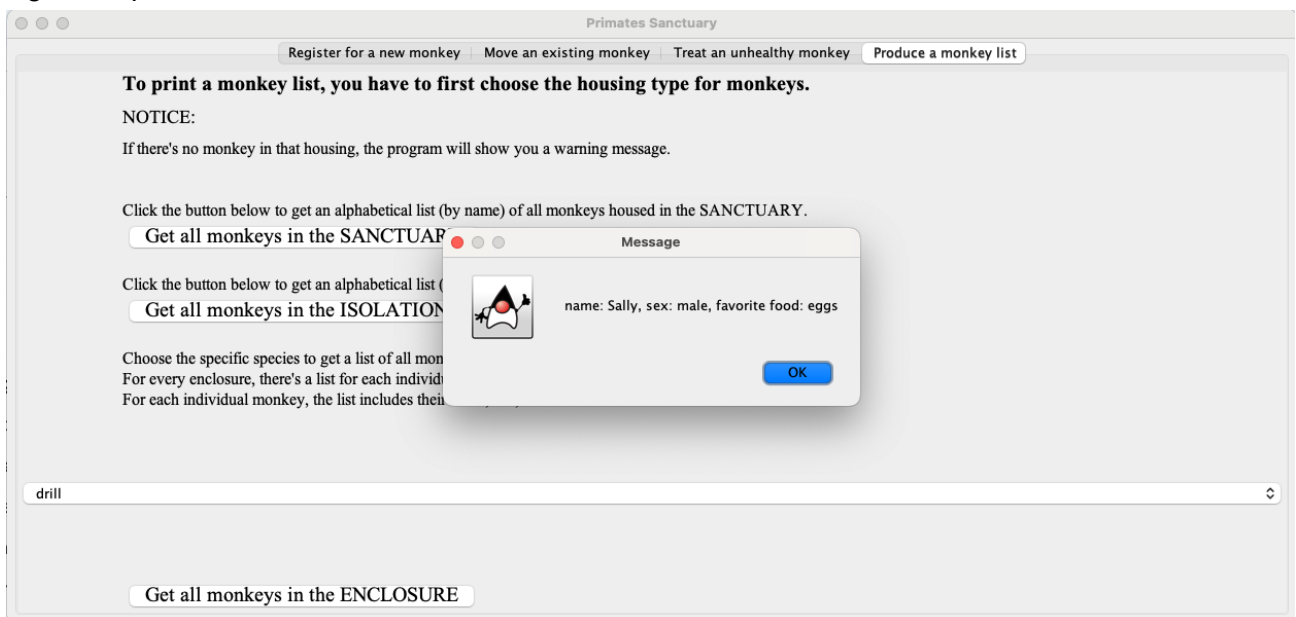
You can get all monkeys (names listed alphabetically) in the SANCTUARY.



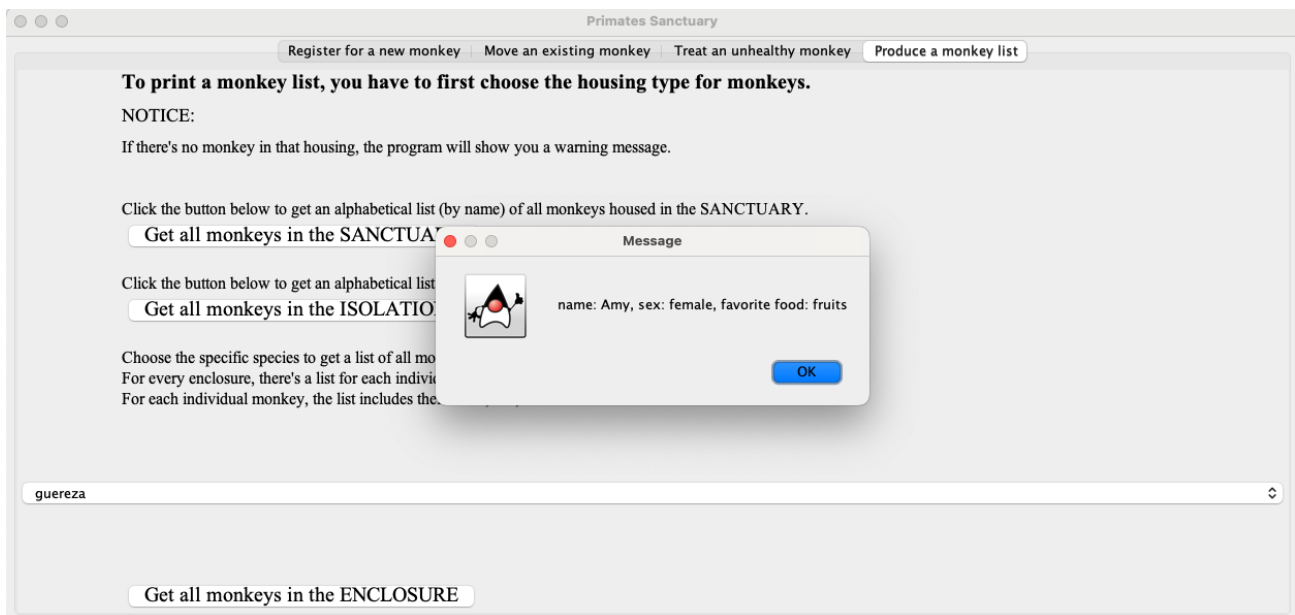
You can get all monkeys (names listed alphabetically) in the ISOLATION.



You can choose a species and get all monkeys (with the required information) in the ENCLOSURE.
e.g. For Species **drill**



You can choose a species and get all monkeys (with the required information) in the ENCLOSURE.
e.g. For Species **guereza**



Or you will see a window showing a warning because this Enclosure has no monkey.
e.g. For Species **howler**

