**Pseudocode by Jaden Knutson**

**VARIABLES:**

CREATE variables for dogSpace, catSpace, lengthOfStay, petGroom, petHistory, and userPet.

ASSIGN dogSpace with 30.

ASSIGN catSpace with 12.

ASSIGN lengthOfStay with 0.

ASSIGN petGroom with 0.

ASSIGN petHistory with an empty string.

ASSIGN userPet with an empty string.

**START:**

WHILE userPet doesn’t equal cat or dog.

OUTPUT to user to enter cat or dog.

INPUT if the userPet is a cat or a dog.

IF the userPet is a dog.

IF dogSpace is not equal to 0.

INPUT if userPet has been there before and store answer in petHistory.

IF petHistory equals no.

INPUT and store userPet’s Name.

INPUT and store userPet’s Age.

ELSE-IF petHistory equals yes.

INPUT userPet’s information (age and name) from the user.

IF userPet’s information doesn’t equal prior records.

REPLACE userPet’s records with the new information.

INPUT lengthOfStay from the user.

IF lengthOfStay is 2 days or more.

INPUT from the user if they want their userPet groomed.

IF user input is yes.

ASSIGN the userPet to a space, with grooming.

SUBTRACT 1 space from dogSpace.

ADD 1 to petGroom.

END.

ELSE-IF user input is no.

ASSIGN the userPet to a space, without grooming.

SUBTRACT 1 space from dogSpace.

END.

ELSE-ASSIGN the userPet to a space, without grooming.

SUBTRACT 1 space from dogSpace.

END.

ELSE-OUTPUT to the user that there is no space to store userPet.

END.

IF the userPet is a cat.

IF catSpace is not equal to 0

INPUT if userPet is a new or a returning customer and store answer in petHistory.

IF petHistory equals no.

INPUT and store userPet’s Name.

INPUT and store userPet’s Age.

ELSE-IF petHistory equals yes.

INPUT userPet’s information (age and name) from the user.

IF userPet’s information doesn’t equal prior records.

REPLACE userPet’s records with the new information.

INPUT lengthOfStay from the user.

ASSIGN the userPet to a space, without grooming

SUBTRACT 1 space from catSpace

END.

ELSE-OUTPUT to the user that there is no space to store userPet.

END.

**Flowchart by Jaden Knutson**

Diagram

Description automatically generated

Diagram

Description automatically generated