# CLIPS Workshop II - Pet Selection System

This workshop will take about 2-hours to complete.

Develop a ***personalized knowledge-based recommender*** system to help users select an appropriate pet:- rabbit, mice, fish, cat, dog.

## The following expert rules must be used in the system:

Rule#1a: IF *small_pet* THEN *rabbit(0.5),mice(0.8), fish(1.0)*

Rule#1b: IF *midsize_pet* THEN *rabbit(0.8),cat(0.6), dog(0.2)*

Rule#1c: IF *large_pet* THEN *cat(0.5), dog(0.9)*

Rule#2: IF *good_company* THEN *cat(0.7), dog(1.0) rabbit(0.3)* ELSE *mice(0.9),fish(0.9)*

Rule#3a: IF *short_life_span* THEN *fish(0.7), mice(0.7)*

Rule#3b: IF *medium_life_span* THEN *fish(0.4), rabbit(0.8)*

Rule#3c: IF *long_life_span* THEN *cat(0.9), dog(0.9)*

Rule#4: IF *easy_care* AND *cheap_care* THEN *mice(0.7),rabbit(0.6), fish(0.4), cat(-0.3), dog(-0.9)*

Rule#5a: IF *busy_professional* THEN *cat(-0.1), dog(-0.5)*

Rule#5b: IF *busy_professional* AND *work_in_IT* THEN *dog(-0.9)*

Rule#6: IF *small_house* OR *Apartment* THEN *dog(-0.9)*

## Workshop Guidelines:

(1) Download the file "PetSelection.clp", study the code given
(2) Load, Reset and Run the file
(3) Type (facts) and examine the contents of the working memory
(4) Complete the program using the rules from above
(5) Test you program thoroughly to see if it produces the expected results
(6) Have fun with this program ☺