

EECS4313: Homework 3

Goal: practice writing a set of test cases to automate testing of the given code using [Decision Table Testing](#).

Description: You are given a java file, **AnimalType.java**, whose job is to return one of the animal types described below:

There are two major category: Vertebrate (with backbone) Invertebrate (without backbone). For this a variable is passed to show if it has backbone or not.

Vertebrate consists of two categories of warm blooded and cold blooded.

Warm blooded can adjust their temperature. The function gets a boolean variable to represent a warm blooded anima.

Cold blooded animals are divided into three categories of Fish, Reptile, and Amphibians, where fishes are identified by having gill, reptile are recognized by the rough skin and amphibians are known by their ability to live in both water and land. For all these information a Boolean variable is passed to the function.

Decide **which technique of decision table** testing technique, are you going to use and **write your rational** in your answer sheet. The answer sheet also should **include the decision table**.

Since the decision table is self-explanatory, you don't need to fill out the table below for all the test cases, instead **only write the test cases for which the actual output was not the same as the expected output**, if any at all.

id	Selected Inputs	Description of the test case	Actual Output	Expected Output	Passed?
1					
2					
3					

Submission: Two files should be submitted:

- 1- A pdf file that contains the table above, the decision table and the rational for the selected method. If the decision table can be simplified, you should include both the original and simplified table.

- 2- The junit test cases that contains the test cases mentioned in the decision table. Please note that you should use [junit 5](#). If we cannot run the test cases, then no grade will be awarded.