Name: *John Hellrung*  Role: Put your role here.

This assignment is designed for you to create a program that learns about animals and also can guess what animal the user is thinking about by asking yes/no questions. This design document is intended to encourage you to come up with a design for your program before you start writing code.

#### Problem Definition

Write a paragraph explaining what the problem is, and an outline of your solution (NOT CODE!) with enough details so that someone else can implement it for you in any language. Therefore, this design is not specific to Python and should use only ideas such as variables, conditional statements, loops, and assignment statements.

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| At first problem we need to read the file and then converted into a data structure. Do that class that collects the data for the note in in persevere assignments. They code that the information stored starts at the root and prompts the user. Then if yes the program more to the second next item in the file else the program move to the coolest item in the file the choses being a guess or question. The user said no to a question then it prompts with a question on to why the guess why wrong but if the program was the program prompts the with the option of playing again. |

#### Problem Decomposition

Once you have a good grasp of the problem, use CRC-cards to define the objects that will be needed in order for your program to work. Make sure that you define all the methods and instance variables that you need, and that you completely describe how the information is managed by the objects. You are welcome to make as many copies of the cards as required.

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| **Class name: Treenodes** |  |
| **Class Responsibilities (data and/or methods):** | **Class Collaborations (other classes):** |
| * Makes the tree’s nodes * Create the data structure |  |

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| **Class name: Maketree** |  |
| **Class Responsibilities (data and/or methods):** | **Class Collaborations (other classes):** |
| * Make the tree * Prints the questions and guess based on the text | * Treenodes because it creates and stores the value for the nodes in binary tree |

#### Final Reflection

What are your final thoughts about this assignment and what suggestions do you have for improving it?

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