Pseudo Code for the Password Guessing Game

1. Generate a password and store it in a variable, password.

2. Declare a variable, tries, and initialize to zero. This will be used to count the number of times the user has guessed what the password is.

3. Declare 3 variables to store the hints, say hint1, hint2, hint3.

4. Use a while loop to let the user guess at most 3 times: Inside the while loop:

a. Display the hints. If tries is 0, display hint1. If tries is 1 display hints 1 and 2. If tries is 2, display all three hints.

b. Prompt the user to guess the password and store the guess in a variable.

c. If the guess is right, break out of the loop. Otherwise, print a message telling the user to Try Again!

d. Increment the number of tries.

5. You are out of the while loop. Print a message telling the user if they won or lost. If they lost, also print out the correct password.

What pieces of javascript to you need to know to translate this pseudocode into javascript code.

1. declaring variables: var tires=0;

2. using the prompt method to get input from the user:

var guess=prompt(“Guess the password”);

3. writing messages to the browser. One way to do this is to use paragraph ids and the document.getElementById method. We have done this a few times. An example:

In the body of the html document:

<p id=”example1”></p>

<p id=”example2”></p>

<p id=”example3”></p>

In the script:

document.getElementById("example1").innerHTML = “Have”;

document.getElementById("example2").innerHTML = “a nice”;

document.getElementById("example3").innerHTML = “day!!!!!”;

4. If/Else statements. If you have forgotten the syntax, look it up on w3schools.com.

5. While Loops: Read the tutorial on w3schools.com. We learned this when we were programming in Python.

To generate the password: That zero sure is annoying. Here is one idea:

Create 4 random single digit, nonzero integers, w, x, y, z. Here’s one example for you.

var w=0;

while (w=0){

w=Math.floor(Math.random()\*10);

}

Put these together using algebra to create a password = wxyz.