4)

a. [1 point] Explain what the prompt() does in the first line of code.

- It gets input from users and assign the value that we input to the variable that we declare.

b. [1 point] What was returned to the console when you enter userInput?

- It returned the string ‘8’.

c. [1 point] What is the type of the userInput?

- The type of the userInput is String

d. [1 point] What does alert() do in the last line of code

- It printed a message, which is “Your lucky number is “with my inputted lucky number.

5)

a. [1 point] Try Math.random() multiple times in and console an explain what the Math.random() does in the second line of code.

- It generates a random number and then assign it to the rawRandom variable.

b. [1 point] Try Math.round(0.3), Math.round(0.6), Math.round(1.1), and explain what the Math.round() does in the third line of code.

It rounds up numbers if the tenths place is greater than five, it rounds down numbers if the tenths place is less than five.

c. [1 point] Why can the combination of the second and third line of code generate random binary numbers?

- The random method generates numbers between 0 to 1, if we do not change the range of its method. Therefore, when we use the round method, it returns either 0 or 1.

d. [1 point] Is it possible to generate other types of random numbers with some modification from the second line of code?

Yes. Instead of using the default range from the ramdom method, we can change it to any numbers we want.