Variable exercise –

Create the following variables (resist the urge to copy/paste and practice typing these out!):

var name = 'Susan Smith';

var age = 20;

var hometown = "Hawaii";

You may see undefined displayed in the console after declaring each variable and hitting the "return" key:

var name = 'Susan Smith';

// => undefined

Don't worry too much about this for now, but be aware that this is the expected behavior.

**Hint:**You may have noticed that each of those lines ended in a ; — in JavaScript, a semicolon is used to denote the end of a line. Although your code may execute without them, there may be cases in which a missing semicolon could cause unexpected results. It's best to just get in the habit of using them.

Now try checking, or accessing, the values of the three variables by typing each variable name and hitting "enter:"

name;

age;

hometown;

Then, update (reassign) the value of each variable to your own first and last name, your own age, and your own location.

For example:

name = 'Amy Hill';

age = 25;

hometown = "San Francisco";

Again, try checking, or accessing, the values of the three variables by typing each variable name and hitting "enter:"

name;

age;

hometown;

We can redefine our variables name, age, and hometown as many times as we want. However, **only the most recent value of each variable is retained** Once a variable is redefined, its original value is lost forever.

Consider the following JavaScript code:

var x = 1;

x;

// => 1

x = 2 + x;

// => 3

x;

// => 3

* On the first line, we are assigning the variable x, setting it equal to the integer 1.
* Then, on the next line, we are reassigning the variable x, setting it equal to: 2 plus the most recent value of x (in this case, 1).
* x would now be equal to the integer 3.

Suppose we ran the following lines of code in order, one by one.

var x = 10;

x = 1;

x = 5;

x = 15;

x + 2;

What does that last line evaluate to? Or, put differently, what is the most recent value of x (as of line 4) + 2?

If you guessed 17, you're correct!

Is x's value now 17?

Not so fast! The last time a value was assigned to x was on line 4, so x is still 15.