Guide 2

1. Java script
   1. First class functions
   2. Closures
      1. Closers allow nested functions access to the variables that the parent function has access to. The parent function does not have access to the inner functions variables. A closure is created when the inner function is made available to any scope outside the outer function.
   3. Prototype based inheritance
      1. Prototypes set a basis for a class then each instance of that prototype can specify their own properties. Any object can be assoctiated as a prototype for another object to share the first objects properties.
   4. Strict mode
      1. Strict mode locks down how code is handled. Any silent errors will throw errors in strict mode. Strict mode can sometimes run faster.
   5. This keyword
      1. This is by default set to the global object. When a function is called as a method of an object ‘this’ is set to the object upon what the function is called on.
   6. Compare == with ===
      1. == will return if something is equel and will do type conversion. === will return if something is equal however it will not do type conversion.
2. Guide 3 nod.js
   1. What makes features of nod.js attractive for web servers.
      1. Its fast and light weight. Event driven. Asynchronous no buffering io
   2. When is it advisable to use node.js for io bound operations or cpu intensive? why?
      1. Not advisible for CPU intensive tasks. It is good at IO operations
   3. What is the diff global and local install
      1. Global means any file on the machine can use it well local is for anything that is inside of that file root.
   4. Package.json.
      1. It is where all of the modules that are installed are kept
   5. What are node modules
      1. They are where packages are installed and kept
   6. Midleware are functions that have access to the requerst object the response object and the next middle ware object.
3. Guide 4
   1. Char set language. Facebook MDN
   2. CSS is used with the link command and JS uses the script tag
   3. Css is how it is displayed html is what is displayed
   4. Html then css then dom tree
   5. Inline internal external