

TRUE/FALSE

1. GitHub is a version control system: _____
2. git is a version control system: _____
3. Open source software allows for easier collaboration: _____
4. Mozilla Firefox is not an open source software: _____
5. A single element is returned when calling getElementsByClassname() method _____
6. Multiple elements are return when calling getElementById() method _____
7. The dot operator (.) is not necessary when calling on methods or properties on a JavaScript object _____
8. CSS is used for content creation _____
9. HTML is used for content creation _____
10. CSS is primarily responsible for styling _____

Multiple Choice:

1. Which of the following are part of the essential tags for an HTML document:
 - a. <html></html>
 - b. <link></link>
 - c. <body></body>
 - d. <head></head>
 - e. <a>
2. The term software engineering was coined in which year?
 - a. 1958
 - b. 1959
 - c. 1968
 - d. 1971
 - e. 1982
3. It is important to write _____ and draw _____ of your website/application.
 - a) Reports and Diagrams
 - b) Documents and diagrams
 - c) Outlines and diagrams
 - d) Outlines and graphs
1. Hierarchical structure is important when making diagrams.
 - a) True
 - b) False

Short Answers:

1. Name an open-source software: _____
 2. What is a version control system: _____
 3. What is the advantage of using open source? : _____
-
1. Given the following case study, identify the steps that would be necessary to solve the problem:

Suppose a senior developer merged the wrong code. The senior dev told you not to touch the code. You realize that the pulled code has errors and does not compile. You (junior dev) were told not to touch the original code. What would you do next?

1. Pros & Cons of using/making a general website/webpage as opposed to a web application:

How would you respond to the following scenario?

You are a new employee at a tech company. You have been working there for many years and are now at a senior position. Your boss tells you that there is a new employee who will join the development team and it is your job to train the new employee, you find out that they do not know what version control is or how to use git or GitHub. How would you approach in training the new employee?

Name at least two git commands (three for extra point):

1. _____
2. _____
3. _____

Write the steps in pushing code up to GitHub (extra credit):

Name 3 benefits of using version control system:

1. _____
2. _____
3. _____

Fill in the Blank:

Compare and Contrast Web Application vs. Web Page

Web Application (Pros) – name 2

- 1.
- 2.

Web Page (Pros) – name 2

- 1.
- 2.

Web Application (Cons) – name 2

- 1.
- 2.

Web Page (Cons) – name 2

- 1.
- 2.

HTML + CSS

1. You can style your HTML document by linking your CSS file in the following ways:

1. _____
2. _____
3. _____

2. Specify what each of the following represents in the CSS format (match the correct choice):

```
p {  
    text-align: center;  
    color: blue;  
}
```

- a. html element/css selector
- b. property
- c. value

```
p : _____  
text-align: _____  
color: _____  
center: _____  
blue: _____
```

3. For the following html code, write the css targeting the id and the class. The property for the id is color with a value of red. The property for the class is text-align with a value of center.

```
<body>
  <h1 id="greet">Greeting</h1>
  <p class="greeting">Hello</p>
  <p class="greeting">Goodbye</p>
</body>
```

JavaScript

1. Please indicate if the following is TRUE or FALSE. An array data structure must contain the same data type (example: let arr = ["hi", "Bye", "greeting"])
2. List 3 methods that can be called by the array data structure:
 1. _____
 2. _____
 3. _____
3. Name the 3 types of event listeners we mentioned in class:
 1. _____
 2. _____
 3. _____
4. Convert the following into an arrow function:

```
function multiply (x, y) {
  return x * y;
}
```

Write your arrow function in the space below:

5. Convert the following arrow function to a regular function with "function" declaration:

```
const multiply = (arg1, arg2, arg3) {
  arg1 * arg2 * arg3
}
```

Write your answer in the space below:

6. Translate the following outline to a site diagram:

1. Home
 - a) Welcome
 - b) Preview of what's on the site
 - c) An overview of CSS
2. Syntax
 - a) Overview
 - b) Selectors
 - c) Properties
 - d) Values
3. Colors & Background
 - a) Colors & Background Colors
 - i. Different ways to code colors
 - ii. Importance of color coordination
 - iii. More CSS
 - b) Background Images
 - i. size
 - ii. repeat