COMP1073 - FINAL EXAM - Sample Questions

2 hours to complete
15% of final mark

Before beginning this exam, you must create a GitHub repository called COMP1073-Summer2020-FinalExam. You must set this repository to private or it will not be accepted. Each question will be included as a folder in your repository. Keep in mind, Github does not allow you to upload empty folders.

Build It : Question One (5 marks total)

Navigate to https://github.com/JessicaGilfillan/Summer2020-FinalExam-q1d and download all code files. Using the image displayed in index.html, create the following using JavaScript.

1. When the user hovers over the image displayed, the image changes to a img2.jpg
2. When the user hovers over the image displayed, a new div is added to the page. Inside the div, there is an H1 that says "Good Luck On Your Final Exam!".
3. When the user hovers away from the image, the background colour changes to #C0DE25 and the H1 disappears.

Remember to ensure your code is properly formatted and valid! Create a folder called Q1 and include all your code files inside. Publish your page using Github Pages. Include a link to your GitHub repo and published page as your answer.

Explain It: Question Two (5 marks)
Explain (in detail) the following code snippet:

```
class Person {
  constructor(first, last, age, gender, interests) {
    this.name = {
      first,
      last,
    };
    (this.age = age), (this.gender = gender), (this.interests = interests);
  }
  greeting() {
    console.log("Hi I am " + this.name.first);
  }
  farewell() {
    console.log(this.name.first + "Has left the building");
  }
}

let jess = new Person('Jess','Gilfillan', 35, 'female', ['cats', 'code']);

jess.greeting();
jess.farewell();
```

Debug It : Question Three (5 marks)

Navigate to https://github.com/JessicaGilfillan/Summer2020-FinalExam-q3d and download a copy. When functional, this application will allow the user to click a button to turn the background dark, type in a box and hear a spooky sound and other fun things! However, there are five errors in the code that are preventing this application from working properly. Find and fix all five errors to get this application functioning again! You may use any tools you normally use for debugging (console, JS Hint, JS Lint, Code Editor).

Once you have found and fixed all five errors, upload your code to your github repo in a folder called Q3 and include the link to your repository as your answer for Question Three.