Name:

ID:

M1 Assignment 04 Special

Submit completed assignment here: <https://docs.google.com/forms/d/e/1FAIpQLSdygGxiCKScAhWm1V_aNsRY_QEbW3pntClfQuXZrryX9zDdqg/viewform>

**Part 1:** [Boolean Algebra](https://medium.com/i-math/intro-to-truth-tables-boolean-algebra-73b331dd9b94)

1. Evaluate the following logical expression:

**P = True, X = False**

* What is **P and X**?

1. Evaluate the following logical expression:

**P = True, X = False**

* What is **P or X**?

1. Evaluate the following logical expression:

**P = True, X = False, Z = True**

* What is **P and X or not z**?

1. Complete the following truth table:

|  |  |  |
| --- | --- | --- |
| P | Q | P and Q |
|  |  |  |
|  |  |  |
|  |  |  |

Part 2: [The Internet](https://runestone.academy/runestone/books/published/webfundamentals/WWW/toctree.html)

1. What protocol is used when the browser and web server talk?

|  |  |
| --- | --- |
|  |  |
|  |  |
|  |  |

1. Give an example of a web browser:

|  |  |
| --- | --- |
| apple | google |
| maps | opera |
| iphone | windows |

1. What does the “TP” in HTTP stand for? What does it mean?

|  |  |
| --- | --- |
| Tee pee | To protocol |
| Traffic protocol | Total pressure |
| Transfer protocol | Tipping point |

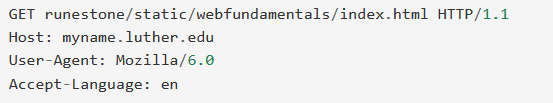
1. What 3 technologies do modern web pages rely on?

|  |  |
| --- | --- |
| Browser,server,bluetooth | Chrome,google,apple |
| Jquery,html,sas | Javascript,html,css |
| Javascript,c++, ruby | Python,html,css |

1. Who invented the internet? Where was it invented?
2. Why was the establishment of the W3C important?
3. Are all locators are also identifies? Explain:
4. What is returned from the Domain Name Service Server (DNS)?

|  |  |
| --- | --- |
| IP Address | Host name |
| Domain name | Mac address |
| server | Free stuff |

1. The mechanism in which a browser connects to a server is known as what?
2. Consider the following http request:



* What command is used and what is its purpose?

|  |  |
| --- | --- |
| GET | PUT |
| POST | PUSH |

* What type of web browser is being used?

|  |  |
| --- | --- |
| Firefox | Safari |
| IE | Chrome |

1. What does the HTTP response code 503 mean:

|  |  |
| --- | --- |
| Resource location changed | Server crashed |
| Mistyped URL | Everything is fine |

Part 3: **Information Gathering**

* 1. [Cognitive Biases](https://en.wikipedia.org/wiki/List_of_cognitive_biases)
     1. What is the confirmation bias?

|  |  |
| --- | --- |
| The first item is a list is probably the answer. | The more beautiful an item is, the more I like it. |
| I have a feeling I know the right answer, so I’ll search for evidence to support my opinion. | I have other people confirm my ideas. |

* + 1. What is the survivorship bias?
    2. Discuss a time in your life when you have experienced a cognitive bias:
    3. Why do we need to be aware of cognitive biases when collecting information or building computer programs?
  1. [Chrome Shortcuts](https://support.google.com/chrome/answer/157179?hl=en)
     1. What is the keyboard shortcut to create a new tab?
     2. What is the keyboard shortcut to make everything on the page bigger?
     3. What is the keyboard shortcut to go to the bottom of the page?
  2. [Credible Sources](https://sites.umgc.edu/library/libhow/credibility.cfm)
     1. What checklist should be used to determine if a source is credible?
     2. Name a reliable web domain:
     3. Name two things you should beware of when evaluating a source:
     4. What is a filter bubble?