Sample Questions

Multiple Choice

The kahoot provided in tute 10 should be more than enough to practice this section.

Short Answer

Question 1

- Q. What HTTP method does the U in CRUD reflect?
- A. PUT

Question 2

- Q.What is something you would add to a continuous integration pipeline?
- A. Linting | Testing (e.g. pytest)

Question 3

- Q. What do the circles in ER diagrams represent?
- A. Attributes

Question 4

- Q. What does data persistence refer to?
- A. The saving of state even after the process is no longer running

Question 5

- Q. List the parts of the SDLC in order
- A. Requirements analysis, design, development, testing, deployment, maintenance

Question 6

- Q. What is the difference between a functional and non functional requirement?
- A. **Functional requirements** specify a specific capability/service that the system should provide. **Non-functional requirements** place a constraint on *how* the system can achieve that. Typically this is a performance characteristic.

Question 7

- Q. Describe the structure of a user story and give an example
- A. As a <type of user> I want <some goal> so that <some reason>. As an admin, I want to be able to update the website them, so that I can keep my user's engaged

Question 8

- Q. Define python exceptions, and provide an example.
- A. An **exception** is an action that disrupts the normal flow of a program. E.G. ValueError

Question 9

- Q. Describe a concrete example from the project where you noticed a design smell and made changes to improve it. What principle did you use to fix it? Describe in short detail the code.
- A. [up to you]

Question 10

- Q. What is the appropriate of use of the "global" keyword?
- A. When you intend to assign a global variable
  - Note: Not "use", just "assign"

Programming Questions

Labs are an excellent resource here and should provide you with the practice you need.

Question 1

Given the input below, where each number represents the number of days since January 1 2019, write a program that determines how many times a particular "day of the week" occurs. The file is passed in as standard input.

```
0 11 6 88 24 72 51 112 195 100 294 228 356
```

E.G. "0" would mean "Tuesday" and 11 would mean "Saturday"

Resource created 8 months ago (Saturday 30 November 2019, 10:34:02 PM), last modified 8 months ago (Sunday 01 December 2019, 07:26:27 PM).

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