Luke Liwanag’s Answers

# Section 1 Programming – General Knowledge

1. **Super** – is a reference variable of the Parent Class within the Child Class. *Super* Supersedes the Child Class’ variable / method / constructor and accesses the Parent Class’ all available variables / methods / constructors.

**This** – Similar to Super but instead refers to the class where it’s in. Also helps to identify which variable is being used if variable and argument name is the same.

1. **Method Overloading** – Two or more Methods of the same name within the same class but the parameters are different.

**Method Overriding** – using the Parent Class method rather than the Child Class’ method of the same name.

# Section 2 QA Automation – General Knowledge

1. They need to be able to assess requirements and be able to automate the necessary testcases. They should be able to create test suites that would properly test a program and identify defects before it gets deployed into production. They should also be able to create test plans, present test plans and be able to report the results to key stakeholders. On the daily, they need to ensure that automated scripts are properly maintained and ready to be executed prior to each release and in case a production issue arises.
2. I will automate a test if:
   * Task is repetitive and/or will be repeated multiple times and/or takes a long time to complete.
   * It is a task that needs to be run for every release of the application (Smoke / Sanity / Regression).
   * The task takes a long time to perform and could be scheduled overnight.
   * The task involve doing same tasks but have different data.
   * The test is subject to human-error.
   * Quality
3. I will not pick to automate a test if:
   * It is only going to be run once.
   * it is for User Experience where human objectivity are required
   * Tests without predictable results.
   * If test is of no value

# Section 3 Selenium

1. Implicit Wait when we need a set amount of wait time before executing the next set of code. No matter how quick / slow the page loads, the set wait time will execute. This may introduce slowness in the script when used incorrectly

Explicit Wait is used to wait for specific objects to load within the page rather than using a set time. Once the object loads, the next set of code will execute. If the object does not load, an exception will be raised once the timeout is reached.

1. driver.close() closes the current active window. driver.quit() closes all browser windows and ends the Webdriver.
2. Assert: used to check if a functionality works or not. If conditions are not met, the script will abort.

Verify: Similar to assert but if conditions are not met, the script will continue to run and results will be shown at the end of the execution

# Section 4 Web Driver

1. C. statement is incorrect / invalid
2. D.
3. E.
4. D.
5. B.
6. Please see attached .zip