**Executive Summary**

The reason why our group choose java was because both members were familiar with the programming language. Some other reasons while we chose java was it has that it has a large array of 3rd party libraries and large amount of available documentation as well. Another reason is because it’s free and that the java has decent performance. Java also has well-thought out exception handling. Java has a large range of devices it can run on. Java as well has a large number of IDE like Eclipse and NetBeans they are also free as well. Although we didn’t make an GUI java has the ability to create a GUI if needed. JUnit is an open source framework that is designed for the purpose of writing and running tests in the java programming language. One advantage of JUnit is that it has a graphical user interface this allows it to be easier to write and test source code quickly and effectively. Junit allows test to be run continuously and concurrently and the results are provided instantly and if a test fails a list of unsuccessful test appear in a space near the bottom of the display window. Another advantage is no subjective human judgments or interpretation of tests results are required. SO this makes JUnit simple for software developers to correct bugs as they are found compared to other testing frameworks.

**Github https://github.com/SilentZephyr02/HastingsDriver**