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Assignment Title: Assignment on Selenium					
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Semester: Summer 2020-2021	Course Teacher: Abhijit Bhowmik				

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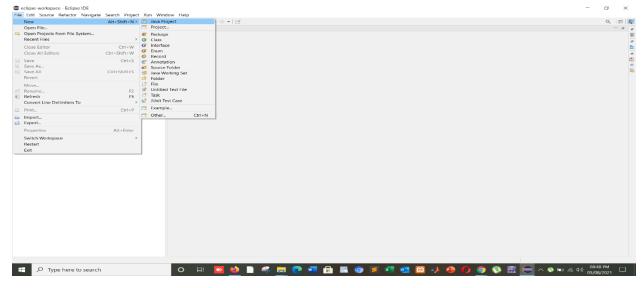
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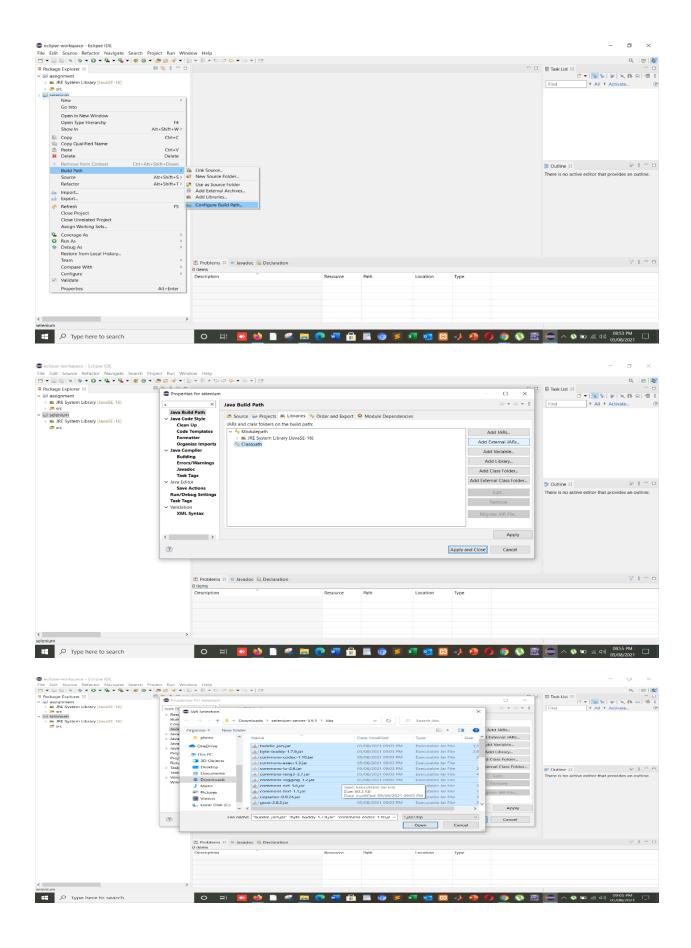
Question 1: Put all screenshots of your computer during installing Selenium.

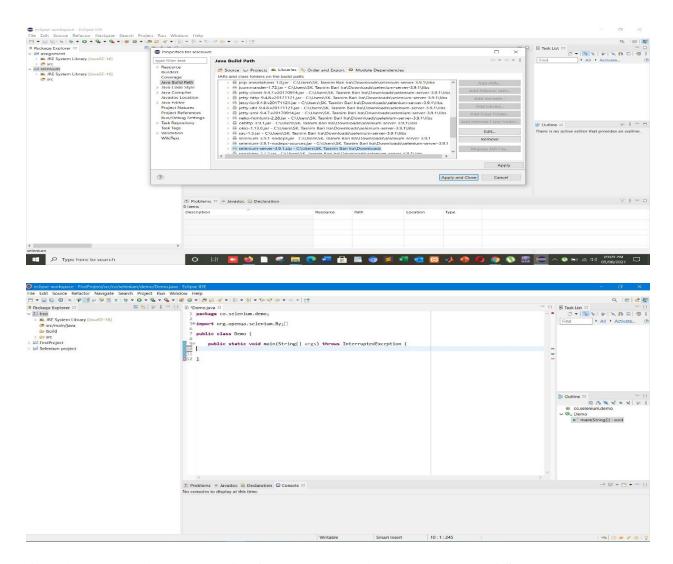
Answer: The steps of installing Selenium for JAVA is given below-











Question 2: Describe the benefit of automated testing and specialty of Selenium.

Answer: Benefits of Automated testing: Automated testing is a couple of procedures which are carried out by the computers or with the help of a lot of codes or our test scripts. But then these scripts which are put out by humans. The testers make automated tools and these tools are used to develop or certain things is called as test scripts. These test scripts particularly perform all the use cased on the software and eventually validate it. So, the goal of automated testing is to ensure that to complete test execution in less amount of time. When we talk about world of information technology, time is considered to money. So, in that case it is a small visualization. The software is developed by a team of software developers, software engineers, architects and obviously it is developed manually. After this some scripts are written. These scripts make use of a variety of functionality macros and much more to go on to imitate. A human executing these test cases but in a very rapid way. This test cases efficiency number is very low. Here automated testing plays a very important role. These are a lot of methods in executing. Some of the methods best performed through automated testing. Automated testing is more robust and reliable which is very vital for software testing methodology. If there are lots of things to test, automated testing will give a better return on investment. Also automated testing performs very well when we have to talk about

regressing testing, load testing and in fact all these test cases which are highly repeatable. Automated testing requires less investment in human resources.

Specialty of Selenium: Selenium is nothing but it is an open-source automation tool which is used to validate any web applications on any browsers across all the platforms. We can run multiple programming languages like java, php, .net, C# etc on selenium and that is the reason the testing that we do on selenium tool is called selenium testing. Selenium can run only web applications. It can not run any desktop applications or any mobile applications. It can be run on various platforms. Example it can be run on multiple operating systems such as Mac OS, windows, linux etc. You don't need a system with certain amount of RAM or a system with a lot of free hard disk space. Neither you do not have a Windows operating system or MAC OS or linux operating system. It can also be run on multiple browsers, for example- Safari, internet explorer, google chrome and Mozilla. It can also be integrated with jmeter and testNg. One of the most advantage why we use selenium in most of the IT industries all over the world is it consumes low hardware consumption while running any scripts. It is powered by Apache which means any organization can use selenium to test their website or even independent programmers can implement and practice selenium without having to pay for it. Most of all remember that a selenium is backed by google which has a huge developer community. The problems with other testing tools is that they are either licensed tools or the functionality is not as good as selenium. The simplicity needed to work with selenium can be related to how easy it is to plug in USB drivers into your system for transferring data. This must be the single most important factor for any programmer to get into the automation testing domain. Frameworks are very similar to templets. You can make slight modification to your code as per your requirement. Selenium allows various frameworks like data driven testing, keyword driven testing, hybrid testing, module driven testing and many more. It can easily integrate with lot of open-source tools. Selenium takes less time to execute because it grid parallel testing and distributed.

These are some specialty of selenium.

Question 3: Practice a dummy project testing in Selenium and put all screenshots from your computer during practicing it.

Answer: We have run a small dummy project for automated testing by Selenium.

Project: Testing an Ecommerce site (Daraz) with Selenium.

Problem Statement: How to run an Ecommerce website (Daraz) and search mobile phones by selecting a specific brand name.

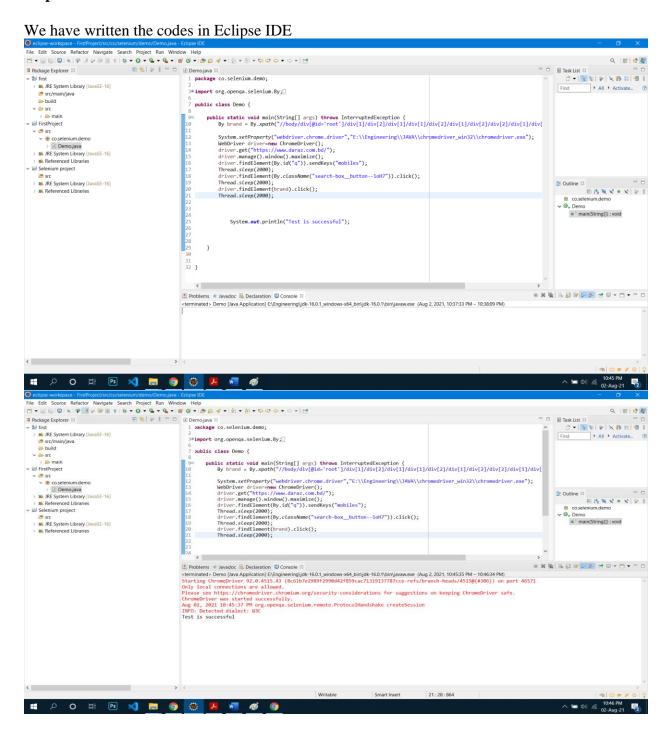
Topics: In this Selenium project, we will develop a test process on daraz.com.bd and use it for search mobile phones by selecting a specific brand name. We will test the site for a search query like mobiles with the specific phone brand Samsung and show the test result.

Step 1: Go to daraz.com.bd website

Step 2: Find search Web-element- Enter mobiles

Step 3: Select brand name Samsung

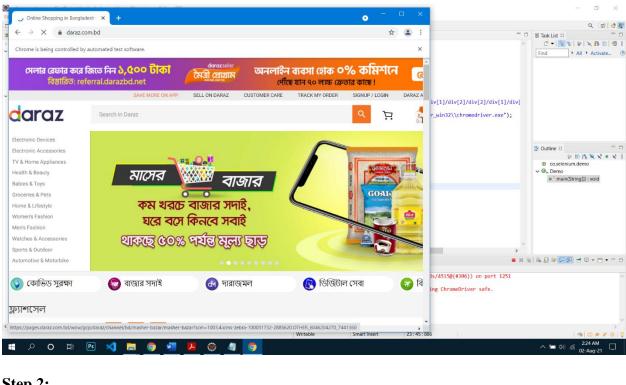
Step 4: Show the test results



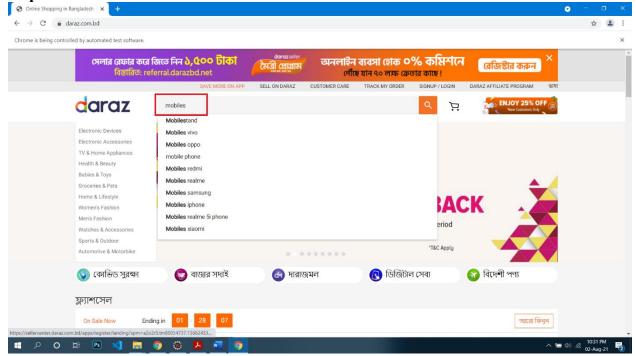
Question 4: Show all the test results of your practice in the report.

Answer: The test result of every step is given below-

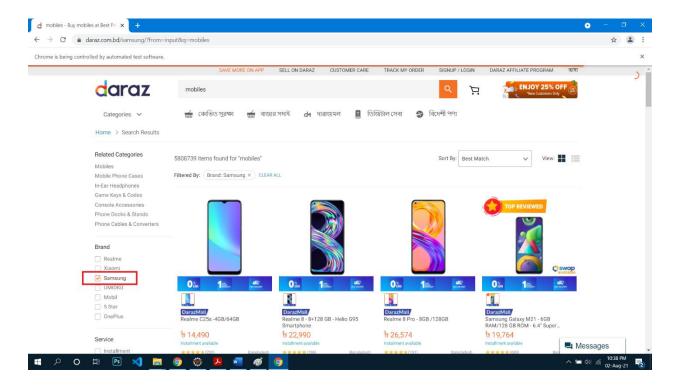
Step 1:







Step 3:



Step 4:

