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**1. What is Selenium..?**

* It is a Open source tool for the Automation testing
* It is used to do the Automation testing for Web based application
* It supports different programming language like Java, Python C#
* It supports different web browsers like Google Chrome, Opera-mini, Microsoft Edge
* It can run at different Operating system like Window, Linux, Mac

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**2. How to download the chrome driver..?**

* Search chrome driver for selenium in the google chrome
* Download the **chromedriver.exe** based our current chrome version
* To know the current version of **chromedriver.exe**, Setting--> About Chrome --> Version name detail will available

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**3. How to launch the Browser..?**

System.setProperty("webdriver.chrome.driver","chromedriver.exe");

WebDriver driver=new ChromeDriver();

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1. **How to maximize the browser…?**

driver.manage().window().window().maximize();

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1. **How to minimize the browser…?**

driver.manage().window().window().minimize();

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1. **What is sleep()..?**

The sleep() is used to stop the execution of programme for the particular time.

Thread.sleep(4000);

* We should pass the time duration as argument to the sleep method.
* We have to call the sleep() method from Thread class
* The sleep() causes the **InterruptedException** exception
* We should manually throws the Exception in the method name
* Else we can handle it by using try-catch

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1. **What is get()..?**

The get() is used to hit the link in the browser.

driver.get(“www.google.com”);

We should pass the link value as argument in the method as String value.

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1. **What is findElement()..?**

* The findElement() method is used to find the single Web Element in the HTML webpage.
* We should pass the locators to the findElement() as a argument.

driver.findElement(By.locator(“locator-value”));

driver.findElement(By.xpath(“//\*[@id=username]”))

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1. **What is findElements()..?**

* The findElements() method is used to find the multiple Web Element in the HTML webpage.
* We should pass the locators to the findElement() as a argument.

driver.findElement(By.locator(“locator-value”));

driver.findElements(By.xpath(“//\*[@id=username]”))

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1. **What are the different between findElement() and findElements()..?**

**findElement() method:**

* This command is used to access any single element on the web page
* It will return the object of the first matching element of the specified locator
* It will throw NoSuchElementException when it fails to identify the element

**findElements() method:**

* This command is used to uniquely identify the list of web elements within the web page.
* The usage of this method is very limited
* If the element doesn’t exist on the page then, then it will return value with an empty list

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1. **What are the locators..?**

* The locator is used to locate the web element in the HTML web page.
* The locator is classified into different types

1. By ID
2. By Name
3. By Tag Name
4. By Class name
5. By Xpath
6. **By ID:** driver.findElement(By.id("JournalDev"));
7. **By Name:** driver.findElement(By.name("JournalDev"));
8. **By Tag Name:** driver.findElement(By.tagName("JournalDev"));
9. **By Class Name:**  driver.findElement(By.className("JournalDev"));
10. **By Xpath:** driver.findElement(By.xpath("JournalDev"));

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1. **What is the Xpath..?**

* Xpath is used to locate an WebElement in the HTML Web page
* Xpath is classified into 2 different types

1. Relative xpath
2. Absolute xpath
3. Relative xpath:



1. Absolute xpath:

df