

Autosuggestions:

- The Suggestions that appears on the screen automatically are known as Autosuggestions.
- Autosuggestions are handled by the `findElements()`
- Return type of `findElements()` is `List<WebElement>`
- If `findElements` does not fetch the address, it will throw the exception called as `Empty list`.

Script: Open google enter the data phone and fetch all the suggestions in console.

```
public class AutoSuggestion {  
  
    public static void main(String[] args) throws  
    Throwable {  
  
        WebDriverManager.chromedriver().setup();  
        WebDriver driver=new ChromeDriver();  
        driver.manage().window().maximize();  
  
        driver.get("https://www.google.com/");
```

```
    driver.findElement(By.xpath("//textarea[@name='q']")).sendKeys("phone");
```

```
    Thread.sleep(5000);
    List<WebElement> value =
driver.findElements(By.xpath("//li[@data-view-
type='1']"));
```

```
    for(WebElement b:value) {
        System.out.println(b.getText());
    }
```

```
    driver.close();
```

```
}
```

```
}
```

Actions class

- Actions class, it is an inbuilt class in Selenium.
- In order to achieve this we have to create an object for Actions class first .
- import it from selenium **interaction** package
- By using Actions class we can perform mouseover action, right click action, drag and drop, double click.

How to perform Mouse over action

- Create an object for Actions class and pass on driver which indicates selenium to perform action on web element.
- Actions a = new Actions(driver);
- Actions class should be imported from selenium.interactions package
- To perform Mouse over action we have a method called moveToElement()
- By default we have to call perform() method to perform this action.

```
Actions a = new Actions(driver);
a.moveToElement(ele).perform();
```

How to perform right click action

- Create an object for Actions class and pass on driver, which indicates selenium to perform action on web element.
- Actions a = new Actions(driver);
- Actions class should be imported from selenium.interactions package.
- To perform right click action we have a method called contextClick()
- By default we have to call perform() method to perform this action.
- Actions a = new Actions(driver);
a.contextClick(ele).perform();

How to perform double click action

- Create an object for actions class and pass on driver which indicates selenium to perform action on web element.
- Actions a = new Actions(driver);
- Actions class should be imported from selenium.interactionspackage.
- To perform double click action we have a method called doubleClick()

- By default we have to call perform() method to perform this action.

```
Actions a = new Actions(driver);  
a.doubleClick(ele).perform();
```

How to perform Drag on drop action

- Create an object for actions class and pass on driver which indicates selenium to perform action on web element.
- Actions a = new Actions(driver);
- Actions class should be imported from selenium.interactions package.
- To perform drag and drop action we have a method called dragAndDrop()
- By default we have to call perform() method to perform this action.

```
Actions a = new Actions(driver);  
a.dragAndDrop(ele1, ele2).perform();
```