

## 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[@na  
me='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();
```