### ***What is an* Actions *Class in Selenium?***

* Actions class is an ability provided by Selenium for handling keyboard and mouse events

**Mouse Actions in Selenium:**

* **doubleClick()**: Performs double click on the element
* **clickAndHold()**: Performs long click on the mouse without releasing it
* **dragAndDrop()**: Drags the element from one point and drops to another
* **moveToElement()**: Shifts the mouse pointer to the centre of the element
* **contextClick()**: Performs right-click on the mouse
* **scrollToElement():** Performs the mouse action of scrolling

**Keyboard Actions in Selenium:**

* **sendKeys():** Sends a series of keys to the element
* **keyDown():** Performs keypress without release
* **keyUp():** Performs key release

### ***What is an* Action *Class?***

## **Action** class is an **Interface***.*

## It is different from **‘Actions’** class

## It is only used to represent a single user interaction to perform the series of action items built by **Actions** class.

* It has only one abstract method which is **perform()**

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## **Keyboard events in Selenium?**

A Keyboard Event describes a user's interaction with the keyboard. When a user presses single or multiple keys, keyboard events are generated. Selenium provides various ways to automate these Keyboard Events, which are:

1. Automate keyboard events using the **sendKeys**() method of **WebElement** class.
2. Automate keyboard events using **Robot** class.
3. And Automate keyboard events using **Actions** class.

Sample code to use keyboard actions to search in Amazon site

driver.get("https://www.amazon.in/");

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

Actions action = new Actions(driver);

//specify the locator of the search box

WebElement elementToType = driver.findElement(By.id("twotabsearchtextbox"));

//pass the name of the product

action.sendKeys(elementToType, "iphone").build().perform();

//pass the Enter value through sendKeys

action.sendKeys(Keys.ENTER).build().perform();