ACTIONS CLASS

**Actions in Selenium** is a class that allows us to make a sequence of actions that we would like to perform.

**Action in Selenium** is an interface that provides us two methods: perform() and build().

OBJECT CREATION FOR ACTIONS CLASS

#Syntax: Actions actions = new Actions(WebElement driver);

Actions builder = new Actions(driver);

METHODS OF ACTIONS CLASS

Basically, all the methods of actions class can be divided into two categories:

1. Mouse based actions methods
2. Keyboard-based actions methods

**Mouse based Actions Methods**

1. **click():**
2. **click(WebElement):**
3. **doubleClick():**
4. **doubleClick(WebElement element):**
5. **contextClick(): {Right click)**
6. **contextClick(WebElement element):**
7. **moveToElement(WebElement):**
8. **moveToElement(WebElement, int x, int y ):**
9. **clickAndHold():**
10. **clickAndHold(WebElement):**
11. **release():**
12. **release(WebElement):**
13. **dragAndDrop(WebElement src, WebElement target):**
14. **dragAndDropBy(WebElement, int x, int y):**
15. **scrollToElement();**
16. **scrollByAmount();**
17. **pause();**

**Keyboard based Actions Commands in Selenium**

1. **keyDown():**
2. **keyUp():**
3. **sendKeys(CharSequence):**

Note: Keys can be SHIFT,ENTER,ALT,CTRL.(Keys.SHIFT,Keys.ENTER)

Note:Any Action class has to end with .perform()

**Difference between Action and Actions class in Selenium**

1. Action in selenium is an interface whereas, actions in selenium is a class.

2. Action provides two methods such as build() and perform() whereas, actions class provides various methods to perform complex mouse actions and keyboard shortcuts.

3. Actions class extends object class and implements an action interface.