**UI Automator Viewer : Get Android App Element's XPath, ID, Name And className**

**1. XPath using class and text attribute :**

xpath("//android.widget.Button[@text='5']")

**2. XPath using class and resource-id :**

xpath("//android.widget.Button[contains(@resource-id,'digit5')]")

**3. XPath using class, text attribute and resource-id :**

xpath("//android.widget.Button[contains(@resource-id,'digit5') and @text='5']")

**4. XPath using class, text attribute and index :**

xpath("//android.widget.Button[@text='5' and @index='1']")

**5. XPath using parent and child class hierarchy**

xpath("//android.widget.LinearLayout[@index='1']/android.widget.Button[@index='1']")

**6. XPath using content-desc**

xpath("//android.widget.Button[@content-desc='delete']")

**7. XPath using class name**

xpath("//android.widget.ImageButton")

**8. Locating Android App Element By ID**

id("com.android.calculator2:id/digit5")

9. **Locating Android App Element By className**

By.className("android.widget.ImageButton")

10. **Locating Android App element by Name**

By.name("=")

11. **Locating element by findElements**

List<WebElement> calcButtons = driver.findElements(By.xpath("//android.widget.Button"));

12.

**//Vertical scroll down by 50 pixels :  
JavascriptExecutor jsx = (JavascriptExecutor) driver;  
jsx.executeScript("window.scrollBy(0,50)", "");**

**//Vertical scroll up by 50 pixels :  
JavascriptExecutor jsx = (JavascriptExecutor) driver;  
jsx.executeScript("window.scrollBy(0,-50)", "");**

**//Horizontal scroll toward right by 50 pixels :  
JavascriptExecutor jsx = (JavascriptExecutor) driver;  
jsx.executeScript("window.scrollBy(50,0)", "");**

**//Horizontal scroll toward left by 50 pixels :  
JavascriptExecutor jsx = (JavascriptExecutor) driver;  
jsx.executeScript("window.scrollBy(-50,0)", "");**