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In the command prompt > adb install

C:\Users\kiran>Downloads\ApiDemos-debug.apk

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Drop the apk file to the emulator it automatically installs it.

```
actionsFramework[Package]
  /Utility[Folder]
    TouchActionsApi.java[Class]
  /tests[Folder]
    LongPressTest.java[Class]
    TapTest.java[Class]
```

Script in TouchActionApi.java:

```
package actionsFramework.utility;
import io.appium.java_client.android.AndroidDriver;
public class TouchActionApi{
    AndroidDriver driver;
    // Constructor
    public TouchActionApi(AndroidDriver driver){
        this.driver = driver;
    }
    // Tap on an element
    public void tap(WebElement ele){
```

```

        PointerInput touch = new
PointerInput(PointerInput.Kind.TOUCH, "finger");
        Sequence tap = new Sequence(touch, 0);
        tap.addAction(touch.createPointerMove(
            Duration.ZERO,
            PointerInput.Origin.fromElement(ele),
            0, 0));
        tap.addAction(touch.createPointerDown(0));
        tap.addAction(touch.createPointerUp(0));
        driver.perform(Arrays.asList(tap));
    }
    // Tap on element by coordinates -> x, y
    public void tap(int x, int y){
        PointerInput touch = new
PointerInput(PointerInput.Kind.TOUCH, "finger");
        Sequence tap = new Sequence(touch, 0);

        tap.addAction(touch.createPointerMove(Duration.Z
ERO, PointerInput.Origin.viewport(), x, y));
        tap.addAction(touch.createPointerDown(0));
        tap.addAction(touch.createPointerUp(0));
        driver.perform(Arrays.asList(tap));
    }
    // Drag and Drop by source and target Element
    public void dragAndDrop(WebElement source,
WebElement target){
        PointerInput touch = new
PointerInput(PointerInput.Kind.TOUCH, "finger");
        Sequence dragAndDrop = new Sequence(touch, 0);

        dragAndDrop.addAction(touch.createPointerMove(Du

```

```

        ration.ZERO,
        PointerInput.Origin.fromElement(source), 0, 0));
dragAndDrop.addAction(touch.createPointerDown(0)
);
dragAndDrop.addAction(touch.createPointerMove(Du
ration.ofMillis(1000),
        PointerInput.Origin.fromElement(target), 0, 0));
dragAndDrop.addAction(touch.createPointerUp(0));
driver.perform(Arrays.asList(dragAndDrop));
}
// Drag and drop by Cordinates
public void dragAndDrop(int srcx, int srcy, int
trgx, int trgy){
    PointerInput touch = new
PointerInput(PointerInput.Kind.TOUCH, "finger");
    Sequence dragAndDrop = new Sequence(touch, 0);

    dragAndDrop.addAction(touch.createPointerMove(Du
ration.ZERO, PointerInput.Origin.viewport(),
srcx, srcy));
dragAndDrop.addAction(touch.createPointerDown(0)
);
dragAndDrop.addAction(touch.createPointerMove(Du
ration.ofMillis(1000),
        PointerInput.Origin.viewport(), trigx, trgy));
dragAndDrop.addAction(touch.createPointerUp(0));
driver.perform(Arrays.asList(dragAndDrop));
}
// Long press on Element
public void longPress(WebElement ele, int
durationInSeconds){

```

```

        PointerInput touch = new
PointerInput(PointerInput.Kind.TOUCH, "finger");
        Sequence longPress = new Sequence(touch, 0);
        longPress.addAction(touch.createPointerMove(Dura
tion.ZERO, PointerInput.Origin.fromElement(ele),
0, 0));
        longPress.addAction(touch.createPointerDown(0));
        longPress.addAction(touch.createPointerMove(Dura
tion.ofSeconds(durationInSeconds),
PointerInput.Origin.fromElement(ele), 0, 0));
        longPress.addAction(touch.createPointerUp(0));
        driver.perform(Arrays.asList(longPress));
    }
}

```

Script in TapTest.java:

```

package actionsFramework.tests;
import actionsFramework.utility.TouchActionsApi;
import org.openqa.selenium.remote.DesiredCapabilities;
public class TapTest{
    public static void main(String[] args) throw
InterruptedException{
        TouchActionsApi action = new TouchActionsApi();
        DesiredCapabilities dc = new
DesiredCapabilities();
        dc.setCapabilities("deviceName", "appDevice");
        dc.setCapabilities("udid", "emulator-5554");
        dc.setCapabilities("platformName", "Android");
        dc.setCapabilities("platformVersion", "14");
        dc.setCapabilities("automationName",
"UiAutomator2");
        // Open the APK info app to get the information

```

```
        dc.setCapabilities("appPackage",  
"io.appium.android.apis");  
        dc.setCapabilities("appActivity",  
"io.appium.android.apis.ApiDemos");
```

/* Drag and drop the apkinfo apk from laptop to Emulator
Copy the above capabilities in the appium Inspector ->
Capability Builder -> In the command Prompt -> start the
server by typing 'appium' -> Start Session

*/

```
        URL url = new URL("http://127.0.0.1:4723");  
        AndroidDriver driver = new AndroidDriver(url,  
dc);  
        System.out.println("Application Started. . .");
```

```
        TouchActionsApi action = new  
TouchActionsApi(driver);  
// Copy the xpath from Selected Element  
        WebElement tapElement =  
driver.findElement(By.xpath("//android.widget. . ."));  
  
        action.tap(tapElement);  
        action.tap(driver.findElement(By.xpath("//androi  
d.widget. . ."))));
```

```
        int x = 106;  
        int y = 603;  
        Thread.sleep(3000);  
        action.tap(x, y);
```

```
        // For performing Drag and Drop
```

```

        WebElement src =
driver.findElement(By.id("io.appium.android.apis:id/
drag_dot_1"));
        WebElement trg =
driver.findElement(By.id("io.appium.android.apis:id/
drag_dot_2"));
        action.dragAndDrop(src, trg);
        WebElement result =
driver.findElement(By.id("io.appium.android.apis:id/
drag_result_text"));
        if(result.getText().equals("Dropped!")){
            System.out.println("Test Passed:
Dropped.");
        }else{
            System.out.println("Test Failed:
Dropped.");
        }

```

```

// For performing Drag and Drop by Cordinates
int srcx = 203;
int srcy = 622;
int trgx = 622;
int trgy = 627;
action.dragAndDrop(srcx, srcy, trgx, trgy);
WebElement result =
driver.findElement(By.id("io.appium.android.apis:id/
drag_result_text"));
        if(result.getText().equals("Dropped!")){
            System.out.println("Test Passed:
Dropped.");
        }else{

```

```

        System.out.println("Test Failed:
Dropped.");
    }

}

}

Script in LongPressTest.java:
package actionsFramework.tests;
import org.openqa.selenium.remote.DesiredCapabilities;
public class LongPressTest{
    public static void main(String[] args) throws
MalformedURLException{
        DesiredCapabilities dc = new
DesiredCapabilities();
        dc.setCapabilities("deviceName", "appDevice");
        dc.setCapabilities("udid", "emulator-5554");
        dc.setCapabilities("platformName", "Android");
        dc.setCapabilities("platformVersion", "14");
        dc.setCapabilities("automationName",
"UiAutomator2");
        URL url = new URL("http://127.0.0.1:4723");
        AndroidDriver driver = new AndroidDriver(url,
dc);
        System.out.println("Application Started. . .");

        WebElement chromelee =
driver.findElement(By.xpath("//android.widget.TextView[@
content-desc=\"Chrome\"]"));
        TouchActionsApi action = new
TouchActionsApi(driver);
        action.longPress(chromelee, 1);
    }
}

```

}