Practical – 7

Write and test a program to provide total number of objects present / available on the page.

Documentation :

Use the web resource –
https://seleniumhq.github.io/selenium/docs/api/java/org/openqa/selenium/WebElement.html

Write about the following methods :
- Click()
- findElement(By by)
- findElements(By by)
- getAttribute(java.lang.String name)
- getCssValue(java.lang.String propertyname)
- getTagName()
- getText()
- sendKeys(java.lang.CharSequence... keysToSend)

OC.java :

```
package gt;
import org.openqa.selenium.By;
import org.openqa.selenium.Platform;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.remote.DesiredCapabilities;

public class OC {
        static String driverPath = "C:\\xampp\\htdocs\\sw\\node-
test\\GeckoDriver.exe";
        public static WebDriver driver;
        public static void main(String args[])
        {
                System.setProperty("webdriver.gecko.driver",driverPath);
                DesiredCapabilities capabilities = new DesiredCapabilities();
                capabilities = DesiredCapabilities.firefox();
                capabilities.setBrowserName("firefox");
                capabilities.setVersion("38.0.5");
```

```
            capabilities.setPlatform(Platform.WINDOWS);
            capabilities.setCapability("marionette", false);
            driver= new FirefoxDriver(capabilities);
            driver.get("http://toolsqa.wpengine.com/");
            java.util.List<WebElement> links =
driver.findElements(By.tagName("a"));
            System.out.println("Total links are"+links.size());
            for (int i = 0; i<links.size(); i=i+1)
            {
                System.out.println("Link  "+ i + "    Link name   "+
links.get(i).getText());
            }
       }

}
```

Expected Output :

```
Total links are246
Link  0    Link name
Link  1    Link name
Link  2    Link name
Link  3    Link name
Link  4    Link name
Link  5    Link name
Link  6    Link name
Link  7    Link name
Link  8    Link name   HOME
Link  9    Link name   TUTORIAL
.
.
.
Link  243    Link name
Link  244    Link name
Link  245    Link name
BUILD SUCCESSFUL (total time: 1 minute 10 seconds)
```

Practical – 8

Write and test a program to get the number of items in a list / combo box.

Combo.html:

```html
<html>
<body>
<select>
<option>Maharashtra</option>
<option>Gujarat</option>
<option>Rajasthan</option>
<option>Madhya Pradesh</option>
</select>
</body>
</html>
```

ListCount.java :

```java
package gt;
import org.openqa.selenium.By;
import org.openqa.selenium.Platform;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.remote.DesiredCapabilities;
import com.thoughtworks.selenium.*;
/**
 *
 * @author Jayasree.Ravi
 */
public class ListCount extends SeleneseTestCase{
        static String driverPath = "C:\\xampp\\htdocs\\sw\\node-
test\\GeckoDriver.exe";
        public static WebDriver driver;
        public static void main(String args[])
        {
                System.setProperty("webdriver.gecko.driver",driverPath);
                DesiredCapabilities capabilities = new DesiredCapabilities();
                capabilities = DesiredCapabilities.firefox();
                capabilities.setBrowserName("firefox");
                capabilities.setVersion("38.0.5");
                capabilities.setPlatform(Platform.WINDOWS);
                capabilities.setCapability("marionette", false);
```

```java
        driver= new FirefoxDriver(capabilities);
        driver.get("http://localhost:1111/sw//combo.html");
        java.util.List<WebElement> optionCount =
        driver.findElements(By.xpath("//select/option"));
        System.out.println("Number of Options in the Combo Box is "+
optionCount.size());
        for (int i = 0; i<optionCount.size(); i=i+1)
        {
                System.out.println(optionCount.get(i).getText());
        }
    }
}
```

Expected Output :

Number of Options in the Combo Box is 4
Maharashtra
Gujarat
Rajasthan
Madhya Pradesh
BUILD SUCCESSFUL (total time: 44 seconds)