

#### 47. How to handle cookies?

- In Selenium Webdriver, we can query and interact with cookies with below built-in method:

```
driver.manage().getCookies(); // Return The List of all Cookies
driver.manage().getCookieNamed(arg0); //Return specific cookie according to name
driver.manage().addCookie(arg0); //Create and add the cookie
driver.manage().deleteCookie(arg0); // Delete specific cookie
driver.manage().deleteCookieNamed(arg0); // Delete specific cookie according Name
driver.manage().deleteAllCookies(); // Delete all cookies
```

#### 48. Why do we need to handle cookies?

- Each cookie is associated with a name, value, domain, path, expiry, and the status of whether it is secure or not. In order to validate a client, a server parses all of these values in a cookie.
- When Testing a web application using selenium web driver, we may need to create, update or delete a cookie.
- For example, when automating Online Shopping Application, we many need to automate test scenarios like place order, View Cart, Payment Information, order confirmation, etc.
- If cookies are not stored, we will need to perform login action every time before we execute above listed test scenarios. This will increase your coding effort and execution time.
- The solution is to store cookies in a File. Later, retrieve the values of cookie from this file and add to it your current browser session. As a result, you can skip the login steps in every Test Case because your driver session has this information in it.
- The application server now treats your browser session as authenticated and directly takes you to your requested URL.

#### 49. Store cookies cookie information

```
public class cookieRead extends BasePage{
    public static void main(String[] args){
        driver.get("http://demo.guru99.com/test/cookie/selenium_aut.php");

        // Input Email id and Password If you are already Register
        driver.findElement(By.name("username")).sendKeys("abc123");
        driver.findElement(By.name("password")).sendKeys("123xyz");
        driver.findElement(By.name("submit")).click();

        File file = new File("Cookies.data"); // create file to store cookies

        try {
            file.delete(); // Delete old file if exists
            file.createNewFile();
            FileWriter fileWrite = new FileWriter(file);
            BufferedWriter Bwrite = new BufferedWriter(fileWrite);

            // Loop for getting the cookie information
            for(Cookie ck : driver.manage().getCookies()){
                Bwrite.write((ck.getName() + ";" + ck.getValue() + ";" + ck.getDomain() + ";" + ck.getPath()
                    + ";" + ck.getExpiry() + ";" + ck.isSecure()));

                Bwrite.newLine();
            }

            Bwrite.flush(); Bwrite.close(); fileWrite.close();
        } catch(Exception ex) {
            ex.printStackTrace();
        }
    }
}
```