

1) Code for handling multiple windows

```
Set<String> windowHandles = driver.getWindowHandles();

        System.out.println("Number of opened windows: " + windowHandles.size());

for (String string : windowHandles) {

        driver.switchTo().window(string);

String title = driver.getTitle();
```

3) Write code for Cross Browser Testing

```
package login;

public class login {

WebDriver driver;

@BeforeTest

@Parameters("browser")

public void create(String browser) throws Exception{

if(browser.equalsIgnoreCase("firefox")){

        System.setProperty("webdriver.gecko.driver","E:\\Deepna\\Selenium\\geckodriver.exe");

driver = new FirefoxDriver();

}

else if(browser.equalsIgnoreCase("chrome")){

        System.setProperty("webdriver.chrome.driver","E:\\Deepna\\Selenium\\chromedriver.exe");

driver = new ChromeDriver();

}

else if(browser.equalsIgnoreCase("Edge")){

        System.setProperty("webdriver.edge.driver","E:\\Deepna\\Selenium\\Microsoftdriver.exe");

driver = new EdgeDriver();

}

else{

//If the browser is not passed then throw the below exception

throw new Exception("Invalid browser");

}

driver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);

}
```

@Test

```
public void testParameterWithXML() throws InterruptedException{  
    driver.get("https://www.google.com");  
    WebElement Signin = driver.findElement(By.linkText("Login"));  
    //Hit login button  
    Signin.click();  
    Thread.sleep(4000);  
    WebElement uname = driver.findElement(By.id("loginUsername"));  
    //Fill user name  
    uname.sendKeys("your email id");  
    Thread.sleep(4000);  
    WebElement pwd = driver.findElement(By.name("password"));  
    //Fill password  
    pwd.sendKeys("your password");  
    Thread.sleep(6000);  
    WebElement next = driver.findElement(By.linkText("SIGN IN"));  
    //Hit search button  
    next.click();  
    }  
    @AfterTest  
    public void quit(){  
        driver.close();  
    }  
}
```

<?xml version="1.0" encoding="UTF-8"?>

<!DOCTYPE suite SYSTEM "http://testng.org/testng-1.0.dtd">

<suite name="TestSuite" thread-count="2" parallel="tests" >

<test name="ChromeBrowser_Test">

<parameter name="browser" value="Chrome"/>

<classes>

<class name="test.TestScript">

```

</class>
</classes>
</test>
<test name="FirefoxBrowser_Test">
<parameter name="browser" value="Firefox" />
<classes>
<class name="test.TestScript">
</class>
</classes>
</test>
<test name="EdgeBrowser_Test">
<parameter name="browser" value="Edge" />
<classes>
<class name="test.TestScript">
</class>
</classes>
</test>
</suite>

```

4)Write code for handling Frames

```

//Switch to the frame using the index number
driver.switchTo().frame(1);

//Switch back to the parent frame
driver.switchTo().parentFrame();

//Try to switch to another frame using frame name
driver.switchTo().frame("right");

```

6)Multiple options in dropdown:

```

public class login {
    WebDriver driver;

```

@Before

```
public void setUp() {  
    System.setProperty("webdriver.chrome.driver", "E:\\Deepna\\Selenium\\chromedriver.exe");  
    driver = new ChromeDriver();  
    driver.get("https://www.tutorialspoint.com/selenium/selenium_automation_practice.htm\\");  
  
    driver.manage().window().maximize();  
}
```

@Test

```
public void test() throws Exception {  
    WebElement d= driver.findElement(By.xpath("//select[@name='selenium_commands']"));  
  
    //object of Select class  
    Select s=new Select(d);  
  
    List t=s.getOptions();  
    System.out.println("Options are: ");  
    for (WebElement i: t){  
        System.out.println(i.getText());  
    }  
  
    //return true if multi-select dropdown  
    Boolean b=s.isMultiple();  
    System.out.println("Boolean value for dropdown: "+ b);  
  
    //select item by index  
    s.selectByIndex(2);  
    Thread.sleep(1000);  
  
    //select item by visible text  
    s.selectByVisibleText("Wait Commands");  
    Thread.sleep(1000);  
  
    //get first selected option in dropdown  
    WebElement f = s.getFirstSelectedOption();
```

```

System.out.println("First selected option is: " + f.getText());

//deselect option by index

s.deselectByIndex(2);

Thread.sleep(1000);

}

```

@After

```

public void tearDown() {

    //Close the browser

    driver.close();

    driver.quit();

}

```

7)How to upload file in selenium

```

WebElement uploadElement = driver.findElement(By.id("uploadfile_0"));

uploadElement.sendKeys("C:\\newhtml.html");

driver.findElement(By.id("terms")).click();

driver.findElement(By.name("send")).click();

}

```

8)Write code for taking Screenshot

```

//getScreenshotAs method will take an argument for the output type of the file

File scrFile = ((TakesScreenshot)driver).getScreenshotAs(OutputType.FILE);

//Using the FileUtils class, copy the generated screenshot file to any location

FileUtils.copyFile(scrFile, new File("C:\\Users\\some_user\\Desktop\\Image.png"));

```

9)Read data from Excel and given that data as input for login and password and click on submit

```

FileInputStream fileStream = new FileInputStream(filePath);

XSSFWorkbook wb=new XSSFWorkbook(fs);

XSSFSheet sheet=wb.getSheet("Sheet1");

```

```
For(int i=1;i<=sheet.getLastRowNum();i++){  
String username=sheet.getRow(i).getCell(0).getStringCellValue();  
String password=sheet.getRow(i).getCell(1).gettingCellValue();  
Driver.findElement(By.id("body_txtUserID")).clear();  
Driver.findElement(By.id("body_txtUserID")).sendKeys(username);  
Driver.findElement(By.id("body_txtPassword")).clear();  
Driver.findElement(By.id("body_txtPassword")).sendKeys(password);  
Driver.findElement(By.id("body_btnLogin")).click();
```