

Software Testing And Quality Assurance Lab**Q.1****A) Demonstrate the locators(id,css selector,path).****SeleniumLocators.java**

```
package famt.ac.in;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.firefox.FirefoxDriver;

public class SeleniumLocators {

    public static void main(String[] args) {
        System.setProperty("webdriver.gecko.driver",
"C:\\Users\\student\\Desktop\\mca\\Selenium Setup\\geckodriver.exe");
        WebDriver driver=new FirefoxDriver();
        driver.get("https://demoqa.com/automation-practice-form");

        WebElement fname=driver.findElement(By.id("firstName"));
        fname.sendKeys("Tushar");

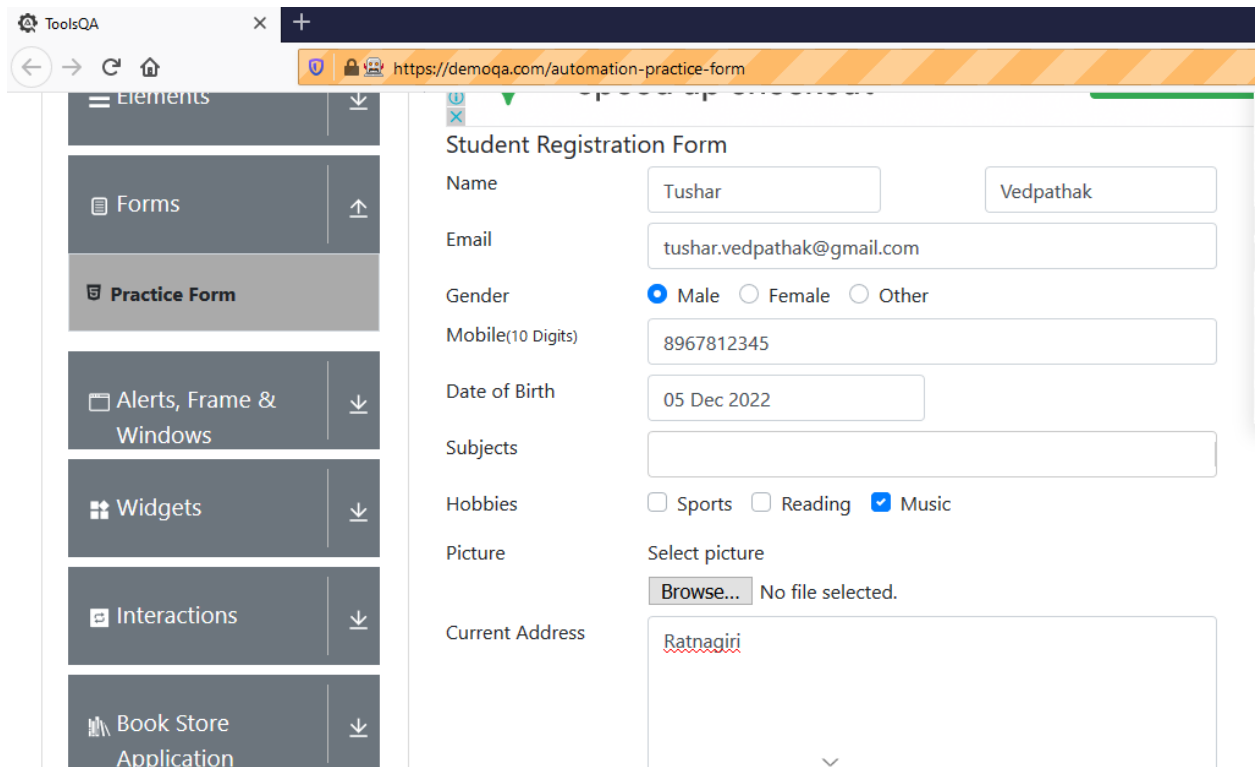
        WebElement
lname=driver.findElement(By.xpath("//*[@id='lastName']"));
        lname.sendKeys("Vedpathak");

        WebElement
email=driver.findElement(By.cssSelector("input[placeholder='name@example.com']"));
        email.sendKeys("tushar.vedpathak@gmail.com");

        WebElement
gender=driver.findElement(By.cssSelector("label[for='gender-radio-1']"));
        gender.click();

        WebElement number=driver.findElement(By.id("userNumber"));
        number.sendKeys("89678123456");
```

```
WebElement  
hobby=driver.findElement(By.cssSelector("input[id='hobbies-checkbox-3']"));  
hobby.sendKeys("Ratnagiri");  
  
WebElement  
address=driver.findElement(By.xpath("//*[@id='currentAddress']"));  
address.sendKeys("Ratnagiri");  
  
}  
  
}
```

Output:

The screenshot shows a web browser window with the URL <https://demoqa.com/automation-practice-form>. The page displays a 'Student Registration Form' with the following fields and values:

- Name: Tushar (with a dropdown arrow showing 'Vedpathak')
- Email: tushar.vedpathak@gmail.com
- Gender: ☒ Male, ☐ Female, ☐ Other
- Mobile(10 Digits): 8967812345
- Date of Birth: 05 Dec 2022
- Subjects: (empty text box)
- Hobbies: ☐ Sports, ☐ Reading, ☒ Music
- Picture: Select picture, Browse... No file selected.
- Current Address: Ratnagiri

The left sidebar contains a menu with the following items:

- Elements
- Forms
- Practice Form (highlighted)
- Alerts, Frame & Windows
- Widgets
- Interactions
- Book Store Application

B) Demonstrate Assertions in TestNG frameworks.**AssertionDemo.java**

```
package assertion;
```

```
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.testng.Assert;
import org.testng.annotations.Test;

public class AssertionDemo {
    @Test
    public void checkTest() {
        System.setProperty("webdriver.gecko.driver",
"C:\\Users\\student\\Desktop\\mca\\Selenium Setup\\geckodriver.exe");
        WebDriver driver=new FirefoxDriver();
        driver.get("https://www.google.com/");

        String title=driver.getTitle();
        String expectedTitle="Google";
        System.out.println(title);

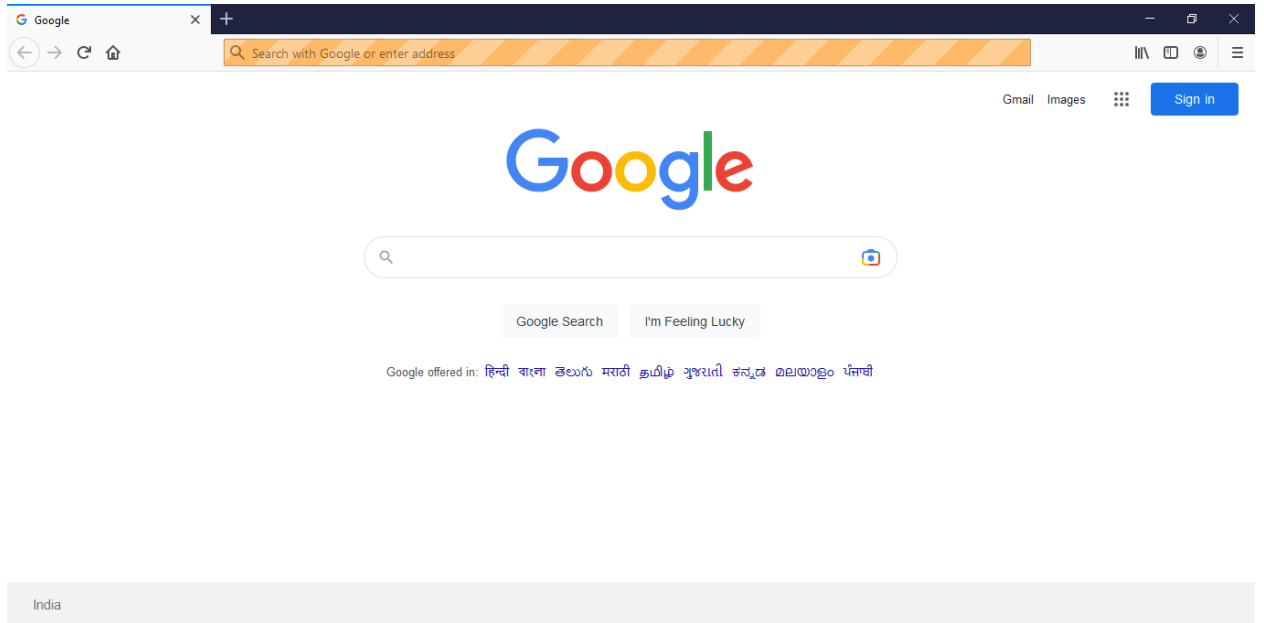
        Assert.assertEquals(expectedTitle, title);

    }
}
```

Testng.xml

```
<suite name="test" verbose="1">
    <test name="Assertion Test">
        <classes>
            <class name="assertion.AssertionDemo"/>
        </classes>
    </test>
</suite>
```

Output:



```
Problems @ Javadoc Declaration Console X Results of running suite
<terminated> TestNgAssertion_testng.xml [TestNG] C:\Users\student\Desktop\mca\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64.17.0.1.v20211116-1657\jre\bin\javaw.exe (05-Dec-202
[RemoteTestNG] detected TestNG version 7.4.0
[TestNGContentHandler] [WARN] It is strongly recommended to add "<!DOCTYPE suite SYSTEM "https://testng.org/testng-1.0.dtd" >" at the top of the suite file
SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.
1670218615753 geckodriver INFO Listening on 127.0.0.1:54456
1670218615984 mozrunner::runner INFO Running command: "C:\Program Files\Mozilla Firefox\firefox.exe" "--marionette" "--remote-debugging-port"
JavaScript error: resource://gre/modules/XULStore.jsm, line 66: Error: Can't find profile directory.
1670218619074 Marionette INFO Listening on port 50199
1670218619144 Marionette WARN TLS certificate errors will be ignored for this session
Dec 05, 2022 11:06:59 AM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected upstream dialect: W3C
Google

=====
test
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
=====
```