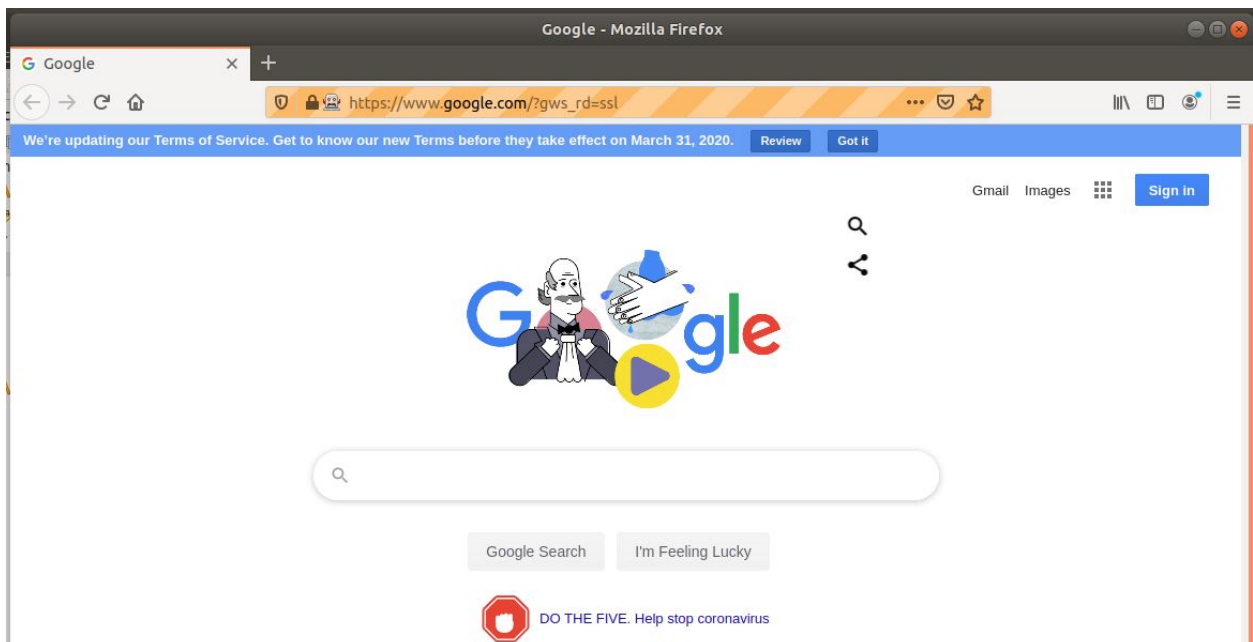


Q1. Write a script to open the Firefox browser and open <https://www.google.com/> URL.

Ans

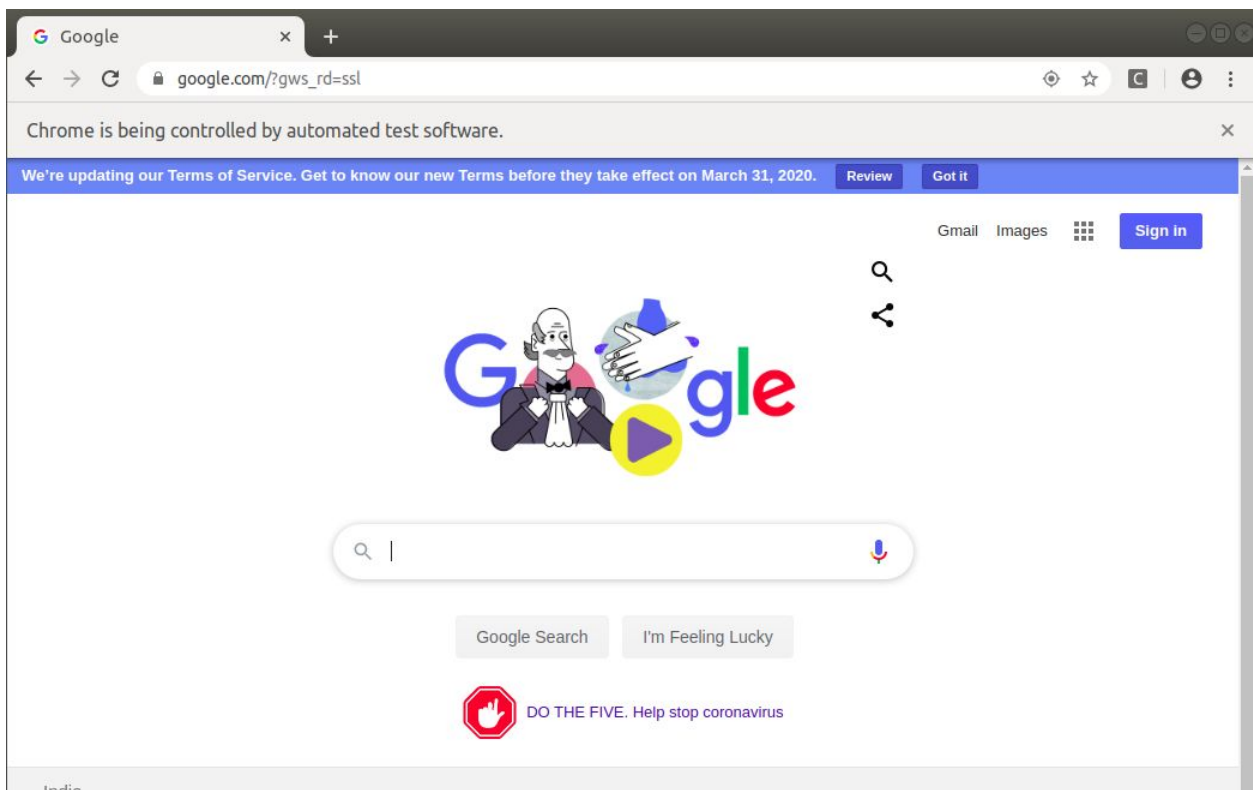
```
demo.java  locators.java  xpath.java  *firefox.java  facebook.java
1 import org.openqa.selenium.WebDriver;
2
3
4 public class firefox {
5
6     public static void main(String[] args) {
7         // TODO Auto-generated method stub
8         System.setProperty("webdriver.gecko.driver", "/home/tushar/Downloads/geckodriver" );
9         WebDriver obj1= new FirefoxDriver();
10
11         obj1.get("http://google.com");
12         System.out.println(obj1.getTitle());
13         System.out.println(obj1.getCurrentUrl());
14         // System.out.println(obj1.getPageSource());
15         /*System.out.println(obj1.getCurrentUrl()); validate if you reached correct url
16         System.out.println(obj1.getClass());
17         System.out.println(obj1.getPageSource()); // print page source
18         obj1.get("http://hdfcnetbanking.com");
19         obj1.close();*/
20
21
22
23     }
24 }
25
26
```



Q2. Write a script launch the Google Chrome browser and open <https://www.google.com/> URL.

Ans

```
demo.java locators.java xpath.java firefox.java facebook.java
1 import org.openqa.selenium.WebDriver;
2
3
4 public class demo {
5
6     public static void main(String[] args) {
7         // selenium code
8         System.setProperty("webdriver.chrome.driver", "/home/tushar/Downloads/chromedriver_linux64/chromedriver");
9         WebDriver driver = new ChromeDriver(); // runtime polymorphism
10
11         driver.get("http://google.com");
12         System.out.println(driver.getTitle()); // validate if your page is correct
13         System.out.println(driver.getCurrentUrl()); // validate if you reached correct url
14         System.out.println(driver.getClass());
15     }
16 }
```



Write the following scripts in any of your desired browsers-

Q3: Write a script to search the "To The New" string in google.

Ans

```
1 import org.openqa.selenium.By;
2 import org.openqa.selenium.Keys;
3 import org.openqa.selenium.WebDriver;
4 import org.openqa.selenium.WebElement;
5 import org.openqa.selenium.chrome.ChromeDriver;
6
7 public class tothenew {
8
9     public static void main(String[] args) {
10         // TODO Auto-generated method stub
11         System.setProperty("webdriver.chrome.driver", "/home/tushar/Downloads/chromedriver_linux64/chromedriver");
12         WebDriver driver3 = new ChromeDriver();
13
14         driver3.navigate().to("http://google.com"); ;
15         WebElement abc = driver3.findElement(By.name("q"));
16         abc.sendKeys("To the New");
17         abc.sendKeys(Keys.ENTER);
18     }
19 }
20 }
21
```

Google search results for "To the New".

Chrome is being controlled by automated test software.

We're updating our Terms of Service. Get to know our new Terms before they take effect on March 31, 2020. [Review](#) [Got it](#)

Google search bar: To the New

About 25,27,00,00,000 results (0.65 seconds)

www.tothenew.com

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A digital technology services company that drives digital transformation and builds disruptive products by leveraging UX, cutting edge technologies, and cloud.

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TO THE NEW

Website Directions Save

4.3 ★★★★★ 613 Google reviews

Software company in Noida, Uttar Pradesh

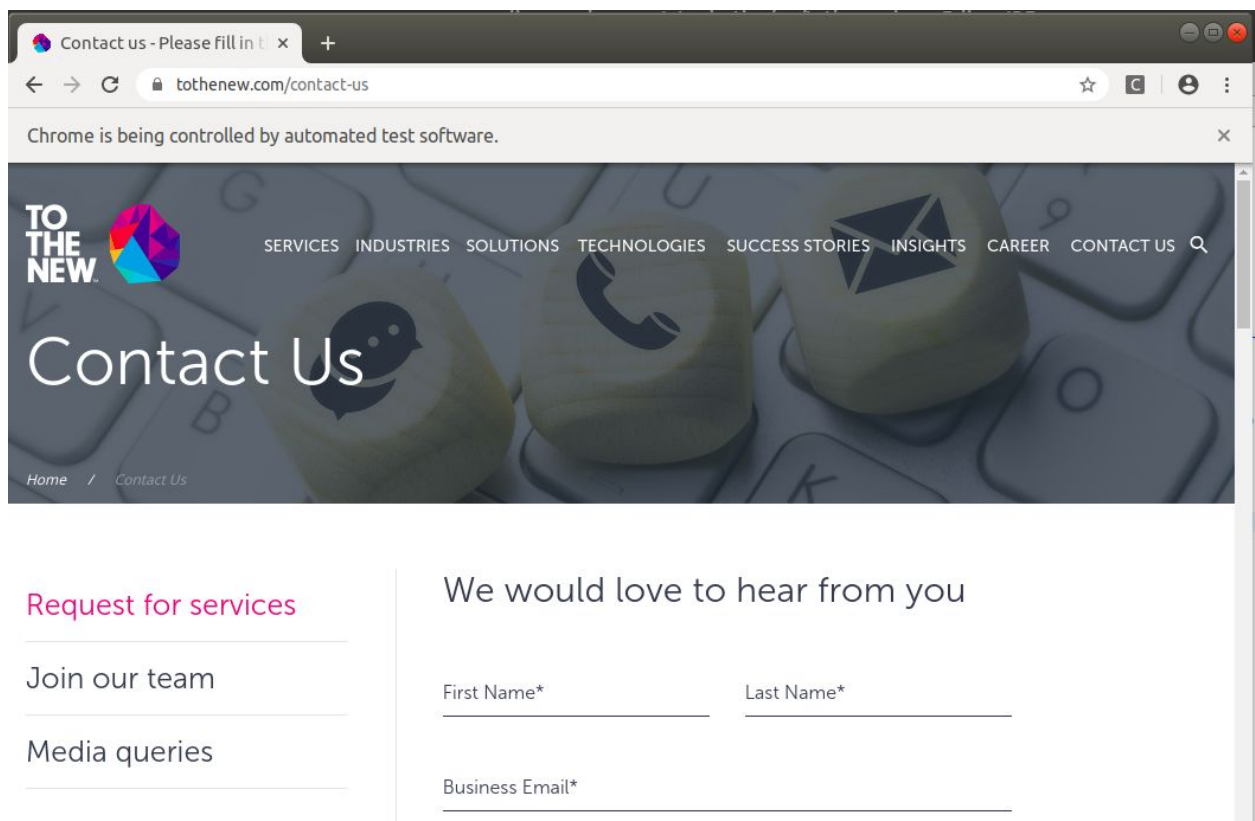
Address: 2nd Floor, NSL Techzone IT SEZ, Noida-Greater Noida Expy, Sector 144, Noida, Uttar Pradesh 201306

Hours: Open · Closes 6:30PM

Q4: Write a script to open <http://www.tothenew.com/> and then navigate to the contact us page using
1) XPath 2) ID

Ans 1

```
1 import org.openqa.selenium.By;
2 import org.openqa.selenium.Keys;
3 import org.openqa.selenium.WebDriver;
4 import org.openqa.selenium.WebElement;
5 import org.openqa.selenium.chrome.ChromeDriver;
6
7 public class tothenew {
8
9     public static void main(String[] args) {
10         // TODO Auto-generated method stub
11         System.setProperty("webdriver.chrome.driver", "/home/tushar/Downloads/chromedriver_linux64/chromedriver");
12         WebDriver driver3 = new ChromeDriver();
13
14         driver3.navigate().to("http://www.tothenew.com/ ");
15         driver3.findElement(By.xpath("//button[@class='decline-button eu-cookie-compliance-secondary-button']")).click();
16         driver3.findElement(By.xpath("//header[@class='header']/a[@id='h-contact-us']")).click();
17     }
18 }
19
20 }
21
```



Ans2

```
demo.java  locators.java  xpath.java  firefox.java  facebook.java  tothenew.java  x
1 import org.openqa.selenium.By;
2 import org.openqa.selenium.Keys;
3 import org.openqa.selenium.WebDriver;
4 import org.openqa.selenium.WebElement;
5 import org.openqa.selenium.chrome.ChromeDriver;
6
7 public class tothenew {
8
9     public static void main(String[] args) {
10         // TODO Auto-generated method stub
11         System.setProperty("webdriver.chrome.driver", "/home/tushar/Downloads/chromedriver_linux64/chromedriver");
12         WebDriver driver3 = new ChromeDriver();
13
14         driver3.navigate().to("http://www.tothenew.com/ ");
15         driver3.findElement(By.xpath("//div[@id='popup-buttons']/button")).click();
```

Q5. Write a script to get the title of the “Contact Us” page.

ANS

```
1 import org.openqa.selenium.By;
2 import org.openqa.selenium.Keys;
3 import org.openqa.selenium.WebDriver;
4 import org.openqa.selenium.WebElement;
5 import org.openqa.selenium.chrome.ChromeDriver;
6
7 public class tothenew {
8
9     public static void main(String[] args) {
10         // TODO Auto-generated method stub
11         System.setProperty("webdriver.chrome.driver", "/home/tushar/Downloads/chromedriver_linux64/chromedriver");
12         WebDriver driver3 = new ChromeDriver();
13
14         driver3.navigate().to("http://www.tothenew.com/ "); ;
15         driver3.findElement(By.xpath("//div[@id='popup-buttons']/button")).click();
16         //driver3.findElement(By.xpath("//button[@class='decline-button eu-cookie-compliance-secondary-button']"))
17         driver3.findElement(By.xpath("//header[@class='header']/a[@id='h-contact-us']")).click();
18         // driver3.findElement(By.linkText("Contact Us"));
19         System.out.println(driver3.getTitle());
20     }
21
22
23 }
```



```
xpath.java tothenew.java 
1=import org.openqa.selenium.By;
2import org.openqa.selenium.Keys;
3import org.openqa.selenium.WebDriver;
4import org.openqa.selenium.WebElement;
5import org.openqa.selenium.chrome.ChromeDriver
6
7public class tothenew {
8
9    public static void main(String[] args)
10        // TODO Auto-generated method stub=
11        System.setProperty("webdriver.chro
12        WebDriver driver3 = new ChromeDriver
13
14        driver3.navigate().to("http://www.
15        driver3.findElement(By.xpath("//di
16        //driver3.findElement(By.xpath("//
17        driver3.findElement(By.xpath("//he
18        // driver3.findElement(By.linkText("C
19        System.out.println(driver3.getTitl
20    }
21
22
23 }
```

```
<terminated> tothenew [Java Application] /usr/lib/jvm/java-11-openjdk-amd64/bin/java (20-Mar-2020, 4:10:32
Starting ChromeDriver 80.0.3987.106 (f68069574609230cf9b635cd784cfb1bf81bb53a-refs/branch-h
Only local connections are allowed.
Please protect ports used by ChromeDriver and related test frameworks to prevent access by
Mar 20, 2020 4:10:33 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
[1584700834.011][SEVERE]: Timed out receiving message from renderer: 0.100
[1584700834.113][SEVERE]: Timed out receiving message from renderer: 0.100
[1584700834.216][SEVERE]: Timed out receiving message from renderer: 0.100
[1584700834.317][SEVERE]: Timed out receiving message from renderer: 0.100
[1584700834.584][SEVERE]: Timed out receiving message from renderer: 0.100
[1584700834.687][SEVERE]: Timed out receiving message from renderer: 0.100
[1584700834.789][SEVERE]: Timed out receiving message from renderer: 0.100
[1584700834.891][SEVERE]: Timed out receiving message from renderer: 0.100
[1584700834.994][SEVERE]: Timed out receiving message from renderer: 0.100
[1584700835.114][SEVERE]: Timed out receiving message from renderer: 0.100
[1584700835.235][SEVERE]: Timed out receiving message from renderer: 0.100
[1584700835.370][SEVERE]: Timed out receiving message from renderer: 0.100
[1584700835.472][SEVERE]: Timed out receiving message from renderer: 0.100
[1584700835.862][SEVERE]: Timed out receiving message from renderer: 0.100
[1584700835.963][SEVERE]: Timed out receiving message from renderer: 0.100
[1584700836.066][SEVERE]: Timed out receiving message from renderer: 0.100
[1584700836.172][SEVERE]: Timed out receiving message from renderer: 0.100
[1584700836.274][SEVERE]: Timed out receiving message from renderer: 0.100
[1584700836.407][SEVERE]: Timed out receiving message from renderer: 0.100
[1584700836.635][SEVERE]: Timed out receiving message from renderer: 0.100
Contact us - Please fill in the form | TO THE NEW
```

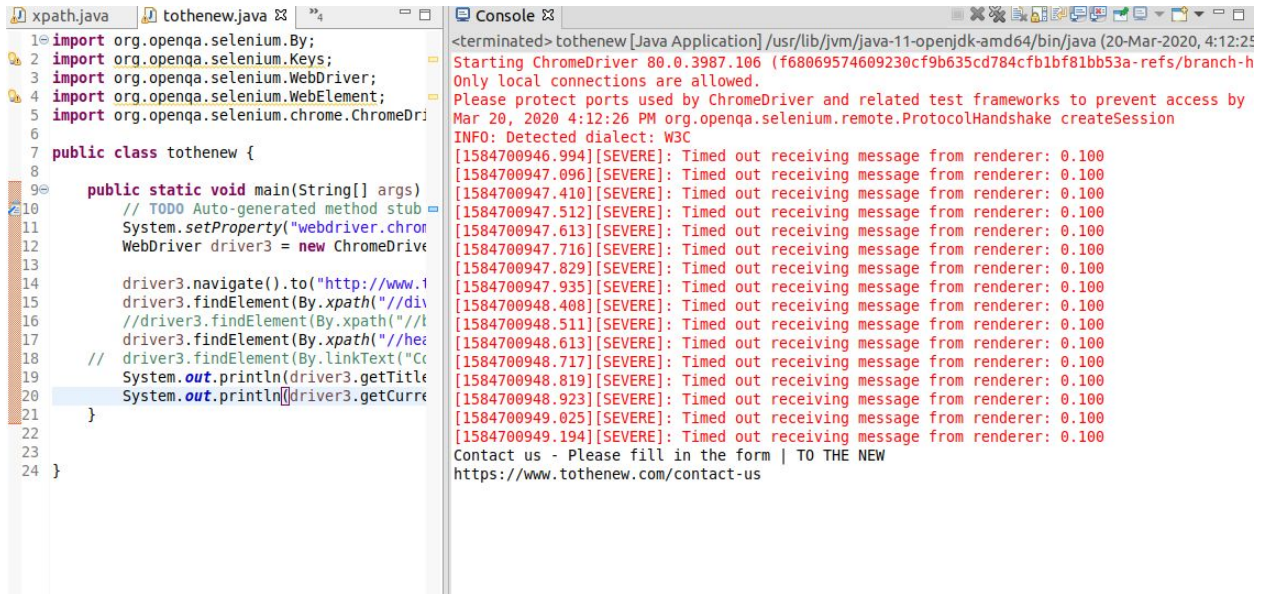
Q6. Write a script to get the url of the "Contact Us" page.

Ans

```

1= import org.openqa.selenium.By;
2 import org.openqa.selenium.Keys;
3 import org.openqa.selenium.WebDriver;
4 import org.openqa.selenium.WebElement;
5 import org.openqa.selenium.chrome.ChromeDriver;
6
7 public class tothenew {
8
9     public static void main(String[] args) {
10         // TODO Auto-generated method stub
11         System.setProperty("webdriver.chrome.driver", "/home/tushar/Downloads/chromedriver_linux64/chromedriver");
12         WebDriver driver3 = new ChromeDriver();
13
14         driver3.navigate().to("http://www.tohenew.com/ "); ;
15         driver3.findElement(By.xpath("//div[@id='popup-buttons']/button")).click();
16         driver3.findElement(By.xpath("//button[@class='decline-button eu-cookie-compliance-secondary-button']")).click
17         driver3.findElement(By.xpath("//header[@class='header']/a[@id='h-contact-us']")).click();
18         // driver3.findElement(By.linkText("Contact Us"));
19         System.out.println(driver3.getTitle());
20         System.out.println(driver3.getCurrentUrl());
21     }
22
23 }
24

```



The screenshot shows an IDE with two tabs: 'xpath.java' and 'tothenew.java'. The 'tothenew.java' tab is active, displaying a Java class named 'tothenew' with a 'main' method. The code imports Selenium WebDriver classes and attempts to set up a ChromeDriver, navigate to a URL, and find elements using XPath. The console on the right shows the application's output, including the Selenium version, the ChromeDriver path, and a series of 'Timed out receiving message from renderer: 0.100' errors, indicating a connection issue between the WebDriver and the browser.

```
1 import org.openqa.selenium.By;
2 import org.openqa.selenium.Keys;
3 import org.openqa.selenium.WebDriver;
4 import org.openqa.selenium.WebElement;
5 import org.openqa.selenium.chrome.ChromeDriver;
6
7 public class tothenew {
8
9     public static void main(String[] args) {
10         // TODO Auto-generated method stub
11         System.setProperty("webdriver.chrome.driver", "path/to/chromedriver.exe");
12         WebDriver driver3 = new ChromeDriver();
13
14         driver3.navigate().to("http://www.tothenew.com");
15         driver3.findElement(By.xpath("//div[@class='header']"));
16         //driver3.findElement(By.xpath("//div[@class='header']"));
17         driver3.findElement(By.xpath("//h1"));
18         // driver3.findElement(By.linkText("Contact Us"));
19         System.out.println(driver3.getTitle());
20         System.out.println(driver3.getCurrentUrl());
21     }
22 }
23
24 }
```

Console Output:

```
<terminated> tothenew [Java Application] /usr/lib/jvm/java-11-openjdk-amd64/bin/java (20-Mar-2020, 4:12:25 PM)
Starting ChromeDriver 80.0.3987.106 (f68069574609230cf9b63cd784cfb1bf81bb53a-refs/branch-heads/80@{#})
Only local connections are allowed.
Please protect ports used by ChromeDriver and related test frameworks to prevent access by malicious software.
Mar 20, 2020 4:12:26 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
[1584700946.994][SEVERE]: Timed out receiving message from renderer: 0.100
[1584700947.096][SEVERE]: Timed out receiving message from renderer: 0.100
[1584700947.410][SEVERE]: Timed out receiving message from renderer: 0.100
[1584700947.512][SEVERE]: Timed out receiving message from renderer: 0.100
[1584700947.613][SEVERE]: Timed out receiving message from renderer: 0.100
[1584700947.716][SEVERE]: Timed out receiving message from renderer: 0.100
[1584700947.829][SEVERE]: Timed out receiving message from renderer: 0.100
[1584700947.935][SEVERE]: Timed out receiving message from renderer: 0.100
[1584700948.408][SEVERE]: Timed out receiving message from renderer: 0.100
[1584700948.511][SEVERE]: Timed out receiving message from renderer: 0.100
[1584700948.613][SEVERE]: Timed out receiving message from renderer: 0.100
[1584700948.717][SEVERE]: Timed out receiving message from renderer: 0.100
[1584700948.819][SEVERE]: Timed out receiving message from renderer: 0.100
[1584700948.923][SEVERE]: Timed out receiving message from renderer: 0.100
[1584700949.025][SEVERE]: Timed out receiving message from renderer: 0.100
[1584700949.194][SEVERE]: Timed out receiving message from renderer: 0.100
Contact us - Please fill in the form | TO THE NEW
https://www.tothenew.com/contact-us
```

Q7: Write the disadvantages of selenium.

- Ans
- 1.It supports Web-based applications only.
 - 2.Difficult to use takes more time to create Test cases.
 - 3.No reliable Technical Support from anybody.
 - 4.Difficult to Setup Test Environment when it compares to Vendor Tools like UFT, RFT, SilkTest.
 - 5.Limited support for Image Testing.
 - 6.New features may not work properly.
 - 7.No Test Tool integration for Test Management.
 - 8.No Built-in Reporting facility.

Q8: Difference between get() & navigate() method.

Ans The main difference between **get()** and **navigate()** is, both are performing the same task but with the use of **navigate()** you can move back() or forward() in your session's history. **navigate()** is faster than **get()** because **navigate()** does not wait for the page to load fully or completely.

Q9. What is the difference between Selenium RC & Selenium WebDriver.

Ans **Selenium RC** injects javascript functions into browsers when the web page is loaded. **Selenium WebDriver** drives the browser using browser's built-in support. **WebDriver** is a tool for testing web applications across different browsers using different programming languages.

Q10. What are locators & types of locators in selenium

Ans Locator is a command that tells Selenium IDE which GUI elements (say Text Box, Buttons, Check Boxes etc) it needs to operate on. Identification of correct GUI elements is a prerequisite to creating an automation script. But accurate identification of GUI elements is more difficult than it sounds. Sometimes, you end up working with incorrect GUI elements or no elements at all! Hence, Selenium provides a number of Locators to precisely locate a GUI element

The different types of Locators in Selenium IDE

- ID
- Name
- Link Text
- CSS Selector
 - Tag and ID
 - Tag and class
 - Tag and attribute
 - Tag, class and attribute
 - Inner text
- DOM (Document Object Model)
 - getElementById
 - getElementByName
 - Dom:name
 - Dom:indext
- XPath

Q11. Write an automation script for filling all fields of the registration page. (Registration.html)

a- Validate that Refresh button is disabled.

b- Validate that your respective gender is selected or not.

c- Validate that header of the registration page is Automation Demo Site.

d- Validate that title of the page is Register.

Ans

```
demo.java  locators.java  xpath.java  firefox.java  facebook.java  tothenew.java  automationdemo  x  -
1 import org.openqa.selenium.By;
2 import org.openqa.selenium.WebDriver;
3 import org.openqa.selenium.WebElement;
4 import org.openqa.selenium.chrome.ChromeDriver;
5
6 public class automationdemo {
7
8     public static void main(String[] args) {
9         // TODO Auto-generated method stub
10        System.setProperty("webdriver.chrome.driver", "/home/tushar/Downloads/chromedriver_linux64/chromedriver");
11        WebDriver driver4 = new ChromeDriver();
12
13        driver4.get("http://demo.automationtesting.in/Register.html");
14        driver4.findElement(By.xpath("//input[@value='Male']")).click();
15        WebElement abc = driver4.findElement(By.xpath("//header[@id='header']/h1"));
16        System.out.println(abc.getText());
17        System.out.println(driver4.getTitle());
18    }
19
20 }
21
```

```
xpath.java  automationdemo  x  -  Console  x
1 import org.openqa.selenium.By;
2 import org.openqa.selenium.WebDriver;
3 import org.openqa.selenium.WebElement;
4 import org.openqa.selenium.chrome.ChromeDriver;
5
6 public class automationdemo {
7
8     public static void main(String[] args) {
9         // TODO Auto-generated method stub
10        System.setProperty("webdriver.chrome.driver", "/home/tushar/Downloads/chromedriver_linux64/chromedriver");
11        WebDriver driver4 = new ChromeDriver();
12
13        driver4.get("http://demo.automationtesting.in/Register.html");
14        driver4.findElement(By.xpath("//input[@value='Male']")).click();
15        WebElement abc = driver4.findElement(By.xpath("//header[@id='header']/h1"));
16        System.out.println(abc.getText());
17        System.out.println(driver4.getTitle());
18    }
19
20 }
21
```

```
<terminated> automationdemo [Java Application] /usr/lib/jvm/java-11-openjdk-amd64/bin/java
Starting ChromeDriver 80.0.3987.106 (f68069574689230cf9b635cd784cfb1bf81bb53a-refs)
Only local connections are allowed.
Please protect ports used by ChromeDriver and related test frameworks to prevent access by malicious software.
Mar 20, 2020 4:50:07 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
[1584703208.895][SEVERE]: Timed out receiving message from renderer: 0.100
[1584703208.996][SEVERE]: Timed out receiving message from renderer: 0.100
[1584703209.098][SEVERE]: Timed out receiving message from renderer: 0.100
[1584703209.200][SEVERE]: Timed out receiving message from renderer: 0.100
[1584703209.303][SEVERE]: Timed out receiving message from renderer: 0.100
[1584703209.409][SEVERE]: Timed out receiving message from renderer: 0.100
[1584703209.512][SEVERE]: Timed out receiving message from renderer: 0.100
[1584703209.615][SEVERE]: Timed out receiving message from renderer: 0.100
[1584703209.717][SEVERE]: Timed out receiving message from renderer: 0.100
[1584703209.861][SEVERE]: Timed out receiving message from renderer: 0.100
[1584703209.964][SEVERE]: Timed out receiving message from renderer: 0.100
[1584703210.066][SEVERE]: Timed out receiving message from renderer: 0.100
[1584703210.169][SEVERE]: Timed out receiving message from renderer: 0.100
[1584703210.271][SEVERE]: Timed out receiving message from renderer: 0.100
[1584703210.374][SEVERE]: Timed out receiving message from renderer: 0.100
[1584703210.477][SEVERE]: Timed out receiving message from renderer: 0.100
[1584703210.580][SEVERE]: Timed out receiving message from renderer: 0.100
Automation Demo Site
Register
```

Register x +


Not secure | demo.automationtesting.in/Register.html

Chrome is being controlled by automated test software.

Automation Demo Site

Home Register WebTable SwitchTo Widgets Interactions Video WYSIWYG More Practice Site

Register



Full Name*

Address


Email address*

Phone*

Gender* ☒ Male ☐ Female

Hobbies ☐ Cricket ☐ Movies ☐ Hockey

Photo



Choose file No file chosen

Q12. Write an automation script for filling FirstName, LastName & Email address field with the help of name locator. (Registration.html)

Ans

```

demo.java locators.java xpath.java firefox.java facebook.java tothenew.java automationdemosite.java x
1 import org.openqa.selenium.By;
2 import org.openqa.selenium.WebDriver;
3 import org.openqa.selenium.WebElement;
4 import org.openqa.selenium.chrome.ChromeDriver;
5
6 public class automationdemosite {
7
8     public static void main(String[] args) {
9         // TODO Auto-generated method stub
10        System.setProperty("webdriver.chrome.driver", "/home/tushar/Downloads/chromedriver_linux64/chromedriver");
11        WebDriver driver4 = new ChromeDriver();
12
13        driver4.get("http://demo.automationtesting.in/Register.html");
14        driver4.findElement(By.xpath("//input[@ng-model='FirstName']")).sendKeys("Tushar");
15        driver4.findElement(By.xpath("//input[@ng-model='LastName']")).sendKeys("Garg");
16        driver4.findElement(By.xpath("//input[@ng-model='EmailAdress']")).sendKeys("tusharg172@gmail.com");
17
18
19
20

```



Automation Demo Site

Register

Full Name*

Address

Email address*

Phone*

Gender* ☒ Male ☐ FeMale

Hobbies ☐ Cricket ☐ Movies ☐ Hockey

Languages

- Charts
- Dynamic Data
- File Download
- Photo
- File Upload
- JQuery ProgressBar
- Loader
- Modals
- ProgressBar file chosen