1.Automate a Web Application

Code:

REDIFFDEMO:

```
package com.qa.SeleniumScripts;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

public class RediffDemo {

	public static void main(String[] args) throws
InterruptedException {
		// TODO Auto-generated method stub


		WebDriver driver = new ChromeDriver();

		driver.manage().window().maximize();


	driver.get("http://register.rediff.com/register/register.php?F
ormName=user_details");

	//
	driver.findElements(By.xpath("//input[@type='text']")).get(0).
sendKeys("hari");

	driver.findElement(By.xpath("(//input[@type='text'])[1]")).sen
dKeys("hari gadhe");
	Thread.sleep(2000);

	driver.findElement(By.xpath("(//input[@type='text'])[2]")).sen
dKeys("admin123");
	Thread.sleep(2000);

	driver.findElement(By.xpath("(//input[@type='button'])[1]")).c
lick();
	Thread.sleep(2000);

	driver.findElement(By.xpath("(//input[@type='password'])[1]"))
.sendKeys("password@123");

	}

}
```

CSS SELECTOR DEMO:

```
package com.qa.SeleniumScripts;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

public class CSSSelectorDemo {

	public static void main(String[] args) {
		// TODO Auto-generated method stub

	   WebDriver driver = new ChromeDriver();

	   driver.manage().window().maximize();

		driver.get("https://www.facebook.com");

		// 1. find element using tag and id ==> tagname#idvalue


	driver.findElement(By.cssSelector("input#first_name")).sendKey
s("hari");


	//driver.findElement(By.cssSelector("input.required")).sendKey
s("Gadhe");


driver.findElement(By.cssSelector("input[name=last_name]")).sendKeys
("Gadhe");
	}

}
```

WEB ELEMENT DEMO:

```
package com.qa.SeleniumScripts;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

public class WebelementDemo {

	public static void main(String[] args) throws
InterruptedException {
		// TODO Auto-generated method stub


WebDriver driver = new ChromeDriver();
```

```
            driver.get("https://www.wikipedia.org/");

            driver.manage().window().maximize();

            // store the location of the element in an object of type
WebElement

      WebElement e1 = driver.findElement(By.id("searchInput"));

           e1.isDisplayed();
           e1.isEnabled();
           e1.sendKeys("Automation testing");
           Thread.sleep(3000);
      // Name locator

       WebElement e2 =  driver.findElement(By.name("search")) ;

       e2.clear();
       e2.sendKeys("New data for automation");
      }

}
```

XPATH DEMO:

```
package com.qa.SeleniumScripts;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

public class XPATHDemo {

      public static void main(String[] args) throws
InterruptedException {
            // TODO Auto-generated method stub


            WebDriver driver = new ChromeDriver();

            driver.get("https://www.wikipedia.org/");

            // Find an element using XPATH locator

            // XPATh : Relative XPATH : //tag[@attribute='value']



      driver.findElement(By.xpath("//input[@name='search']")).sendKe
ys("findelement");

            // element 2 to click on button
```

```
            Thread.sleep(2000);

      driver.findElement(By.xpath("//button[@type='submit']")).click
();
      }

}
```

LINKS DEMO:

```
package com.qa.SeleniumScripts;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

public class LinksDemo {

      public static void main(String[] args) {
            // TODO Auto-generated method stub

            WebDriver driver = new ChromeDriver();

            driver.get("https://www.wikipedia.org/");

            driver.manage().window().maximize();

            driver.manage().deleteAllCookies();


      driver.findElement(By.xpath("//*[@id='searchInput']")).sendKey
s("Testing");


      driver.findElement(By.cssSelector("button[type=submit]")).clic
k();

            // click on the link

      WebElement li=  driver.findElement(By.linkText("Current
events"));

      li.isDisplayed();
      li.isEnabled();
      li.click();


      driver.findElement(By.partialLinkText("Log")).click();


      driver.close();
```

```
	}

}
```

LOCATORS ID:

```
package com.qa.SeleniumScripts;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

public class LocatorsID {

	public static void main(String[] args) {
		// TODO Auto-generated method stub

		WebDriver driver = new ChromeDriver();

		driver.get("https://www.wikipedia.org/");

		driver.manage().window().maximize();

		// Check if the element is displayed

		boolean dis =
driver.findElement(By.id("searchInput")).isDisplayed();

		System.out.println("IS the element displayed ?" + dis);

		// check if the element is enabled or not

		boolean enb =
driver.findElement(By.id("searchInput")).isEnabled();

		System.out.println("IS the element enabled ?" + enb);

		// Enter data in the webelement - input box

		if(enb==true)
		{

	driver.findElement(By.id("searchInput")).sendKeys("Automation
testing");
		}
		else
		{
			System.out.println("textbox is not enabled");
		}
	}

}
```

LOCATOR TAGS:

```
package com.qa.SeleniumScripts;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

public class Locatortag {

	public static void main(String[] args) {
		// TODO Auto-generated method stub

WebDriver driver = new ChromeDriver();

		driver.get("https://www.wikipedia.org/");

		driver.manage().window().maximize();

		// wherever out attribute value is not unique, then go
for findElements & get


	driver.findElements(By.tagName("input")).get(2).sendKeys("data
");

	}

}
```

NAVIGATION METHOD:

```
package com.qa.SeleniumScripts;

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

public class NavigationMethods {

	public static void main(String[] args) throws
InterruptedException {
		// TODO Auto-generated method stub


		WebDriver driver = new ChromeDriver();

		driver.manage().window().maximize();

		driver.manage().deleteAllCookies();

		driver.get("https://www.wikipedia.org/");
```

```
            String expctedtitle= "Wikipedia123";

            String actualtitle = driver.getTitle(); // will fetch the
title of the page

            if(expctedtitle.equals(actualtitle))
            {
                  System.out.println("title of the page is correct");
            }
            else {
                  System.out.println("title of the page is not
correct");
            }



      driver.navigate().to("https://www.selenium.dev/downloads/");

String title1 = driver.getTitle(); // will fetch the title of the
page

            System.out.println("Title of Page2 =" + title1);

            driver.navigate().back(); // navigates back to previous
url

            Thread.sleep(2000);

            driver.navigate().forward();

            Thread.sleep(2000);

            driver.close();

      }

}
```

SETUP CHECK:

```
package com.qa.SeleniumScripts;

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.firefox.FirefoxDriver;

public class SetUpcheck {

      public static void main(String [] args) throws
InterruptedException
      {
            // WebDriver
```

```
            // can open a chrome browser window
            WebDriver driver = new  ChromeDriver();
            // Maxamize the browser window
            driver.manage().window().maximize();
            // Open a webpage-URL on the browser
            driver.get("https://www.wikipedia.org/");

            // do some testing
            //Close the browser window
            Thread.sleep(2000); // add wait time before closing the
window
            driver.close(); // will close that particular browser
window
      }
}
```