**1. By Using JUnit/WebDriver do following Task**

a)Start Firefox Browser with implicit wait of 10 Seconds

b)Open http://agiletestingalliance.org and Click on Certifications link

c)Print Total Number of Certification

d)Take Screenshot at this Point

e)Move Cursor Over CP-MAT

f)Take ScreenShot at this point

g)Print href of CP-MAT

public class Example2 {

static WebDriver driver;

**@BeforeClass**

public static void setUpBeforeClass() throws Exception {

System.setProperty("webdriver.gecko.driver",".\\Drivers\\geckodriver.exe");

// System.setProperty("webdriver.gecko.driver",".\\Drivers\\geckodriver.exe");

driver=new FirefoxDriver();

}

**@AfterClass**

public static void tearDownAfterClass() throws Exception {

driver.quit();

}

**@Test**

public void test() throws InterruptedException, IOException {

driver.get("https://agiletestingalliance.org/");

driver.manage().timeouts().implicitlyWait(20, TimeUnit.SECONDS);

driver.findElement(By.xpath("/html/body/header/div/div/nav/ul/li[6]/a")).click();

System.out.println(driver.findElements(By.xpath("//area[@target=\"\_self\"]")).size());

Thread.sleep(3000);

TakesScreenshot screen=(TakesScreenshot)driver;

File src=screen.getScreenshotAs(OutputType.FILE);

FileHandler.copy(src,new File(".\\example2.png"));

WebElement cpmat= driver.findElement(By.xpath("//area[@title='CP-MAT']"));

new Actions(driver).moveToElement(cpmat).build().perform();

Thread.sleep(3000);

TakesScreenshot screen1=(TakesScreenshot)driver;

File src1=screen1.getScreenshotAs(OutputType.FILE);

FileHandler.copy(src,new File(".\\cpmat.png"));

System.out.println(cpmat.getAttribute("href"));

}

}

**2. Automate following Test Scenario using TestNG/WebDriver**

a.Go to the URL: https://nseindia.com/ in Firefox

b.Set Implicit wait of 20 Seconds

c.Print All Data available in Current Currency Rates Section

d.Take Screrenshot at this Point

e.Print Currency having Maximum Indian Rate.

**public** **class** List1 {

**static** WebDriver *driver*;

@Test

**public** **void** f() **throws** IOException {

*driver*.get("https://nseindia.com");

List<WebElement> ls = *driver*.findElements(By.*xpath*("//li[@class='currency active']//div[@class='boxDiv']"));

**for**(**int** i=0;i<ls.size();i++)

{

String text = ls.get(i).getText();

System.***out***.println(text);

}

TakesScreenshot screen =(TakesScreenshot)*driver*;

File src = screen.getScreenshotAs(OutputType.***FILE***);

FileHandler.*copy*(src, **new** File(".\\question2\_currency.png"));

String value1=*driver*.findElement(By.*xpath*("//span[@id='us']")).getText();

String value2=*driver*.findElement(By.*xpath*("//span[@id='uk']")).getText();

String value3=*driver*.findElement(By.*xpath*("//span[@id='euro']")).getText();

String value4=*driver*.findElement(By.*xpath*("//span[@id='japan']")).getText();

String [] Value = {value1,value2, value3,value4};

List b = Arrays.*asList*(Value);

System.***out***.println(Collections.*max*(b));

}

@BeforeTest

**public** **void** beforeTest() {

System.*setProperty*("webdriver.gecko.driver", ".\\Drivers\\geckodriver.exe");

*driver*=**new** FirefoxDriver();

}

@AfterTest

**public** **void** afterTest() {

*driver*.quit();

}

}

**3.Make Suite of All TestNg Scenarios**

**4.Automate following Test Scenario using TestNG/WebDriver**

a.Go to the URL: https://nseindia.com/ in Chrome

b.Set Implicit wait of 20 Seconds

c.Search Keyword "Reliance industries" in Equity Search Box

d.Take Screrenshot at this Point e.Print face Value,52 week high,52 week Low

**@Test**

**public** **void** f() **throws** InterruptedException, IOException {

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

*driver*.manage().timeouts().implicitlyWait(20,TimeUnit.***SECONDS***);

*driver*.findElement(By.*id*("keyword")).click();

*driver*.findElement(By.*id*("keyword")).sendKeys("Reliance Industries");

// driver.findElement(By.xpath("//li[@class='selected']")).click();

*driver*.findElement(By.*xpath*("//\*[@id=\"ajax\_response\"]/ol/li/a/b")).click();

TakesScreenshot screen= (TakesScreenshot)*driver*;

File src1=screen.getScreenshotAs(OutputType.***FILE***);

FileHandler.*copy*(src1,**new** File(".\\Example3.png"));

String facevalue=*driver*.findElement(By.*xpath*("/html/body/div[2]/div[4]/div[2]/div[1]/div[4]/div[4]/div[1]/div/div[1]/ul/li[3]")).getText();

System.***out***.println(" "+facevalue);

String facehigh=*driver*.findElement(By.*xpath*(" //div[@id='fundamentals\_tbl']//ul//li[8]")).getText();

System.***out***.println(""+facehigh);

String faceLow=*driver*.findElement(By.*xpath*("//div[@id='companies']//ul//li[9]")).getText();

System.***out***.println(""+faceLow);

Thread.*sleep*(4000);

}

**@BeforeTest**

**public** **void** beforeTest() {

System.*setProperty*("webdriver.chrome.driver",".\\Drivers\\chromedriver.exe");

*driver*=**new** ChromeDriver();

}

**@AfterTest**

**public** **void** afterTest() {

*driver*.quit();

}

}

**5.Automate following Test Scenario using TestNG/WebDriver**

a.Go to the URL: https://nseindia.com/ in Firefox

b.Set Implicit wait of 20 Seconds

c.Search Keyword "Mahindra & Mahindra Limited","Bajaj FinservLimited","Hindustan Unilever" and GAIL in Equity Search Box

d.Print face value of Each Keyword Search

e.Take ScreenShot for Each Keyword

**@Test**

**public** **void** f() **throws** InterruptedException, IOException {

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

Actions action= **new** Actions(*driver*);

FileInputStream IP=**new** FileInputStream("./nse.xls");

HSSFWorkbook wb=**new** HSSFWorkbook(IP);

HSSFSheet s=wb.getSheet("Sheet1");

**for**(**int** i=0;i<=s.getLastRowNum();i++)

{

String company= s.getRow(i).getCell(0).toString();

*driver*.get("https://nseindia.com");

System.***out***.println(company);

*driver*.findElement(By.*id*("keyword")).sendKeys(company);

**new** Actions(*driver*).moveToElement(*driver*.findElement(By.*id*("keyword"))).sendKeys(Keys.***ENTER***).build().perform();;

*driver*.findElement(By.*xpath*("//\*[contains(text(),'"+company+"')]")).click();

System.***out***.println("face value is "+*driver*.findElement(By.*id*("faceValue")).getText());

TakesScreenshot screen =(TakesScreenshot)*driver*;

File src = screen.getScreenshotAs(OutputType.***FILE***);

FileHandler.*copy*(src, **new** File(".\\question5\_"+company+".png"));

}

}

**@BeforeTest**

**public** **void** beforeTest() {

System.*setProperty*("webdriver.gecko.driver",".\\Drivers\\geckodriver.exe");

*driver*=**new** FirefoxDriver();

}

**@AfterTest**

**public** **void** afterTest() {

*driver*.quit();

}

}

**6.Using Page Object Model & TestNG/webDriver automate following Scenario.**

a.Go to the URL: https://www.shoppersstop.com/ in Chrome

b.Maximize Browser & Set Implicit wait of 20 Seconds

c.Move to Shoe section of Men and Print All Shoe Available Shoe Category

d.Click on All Store & Select Mumbai in "Find Store in your city" & Print All store available in Mumbai.

e.Check avaibility of stores in Chennai,Jaipur and Ranchi

**public** **class** ShowPom {

WebDriver driver;

ShowPom(WebDriver idriver)

{

**this**.driver=idriver;

}

By E\_MEN=By.*linkText*("MEN");

By E\_SHOES=By.*linkText*("Shoes");

By E\_Cat=By.*xpath*("/html/body/main/nav/div[1]/div/ul/li[4]/div/div/ul/li[3]/div/ul/li[1]/div/ul/li");

By E\_AllStores=By.*xpath*("//\*[text()='All Stores']");

By E\_CityName=By.*id*("city-name");

By E\_Store=By.*id*("selectedPOS");

**public** **void** getMenShoeCategory()

{

**new** Actions(driver).moveToElement(driver.findElement(E\_MEN)).perform();

**try** {

Thread.*sleep*(2000);

} **catch** (InterruptedException e) {

// **TODO** Auto-generated catch block

e.printStackTrace();

}

**new** Actions(driver).moveToElement(driver.findElement(E\_SHOES)).perform();

**try** {

Thread.*sleep*(2000);

} **catch** (InterruptedException e) {

// **TODO** Auto-generated catch block

e.printStackTrace();

}

List<WebElement> allShoe=driver.findElements(E\_Cat);

**for**(**int** i=0;i<=allShoe.size();i++)

{

System.***out***.println(allShoe.get(i).getText());

}

}

**public** **void** getMumbaiStore()

{

driver.findElement(E\_AllStores).click();

**new** Select(driver.findElement(E\_CityName)).selectByVisibleText("Mumbai");

System.***out***.println(driver.findElement(E\_Store).getText());

}

**public** **boolean** isCityPresent(String City)

{

String Cities= driver.findElement(E\_CityName).getText();

Boolean b=Cities.contains(City);

**return** b;

}

}

//Test

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

ShowPom cos=**new** ShowPom(*driver*);

cos.getMenShoeCategory( );

**public** **class** Example1 {

**static** WebDriver *driver* ;

@BeforeClass

**public** **static** **void** setUpBeforeClass() **throws** Exception {

System.*setProperty*("webdriver.gecko.driver",".\\Drivers\\geckodriver.exe");

*driver* = **new** FirefoxDriver();

*driver*.get("http://ataevents.agiletestingalliance.org/");

System.***out***.println(*driver*.findElements(By.*xpath*("//\*[@class='event\_box']")).size());

TakesScreenshot screen=(TakesScreenshot)*driver*;

File src=screen.getScreenshotAs(OutputType.***FILE***);

FileHandler.*copy*(src,**new** File(".\\example1.png"));

WebElement cpDof=*driver*.findElement(By.*xpath*("/html/body/section/article/div[2]/div[4]/div/a"));

**new** Actions(*driver*).moveToElement(cpDof).build().perform();

File src2=screen.getScreenshotAs(OutputType.***FILE***);

FileHandler.*copy*(src,**new** File(".\\example1\_dof.png"));

System.***out***.println(cpDof.getAttribute("href"));

}

@AfterClass

**public** **static** **void** tearDownAfterClass() **throws** Exception {

*driver*.quit();

}

@Test

**public** **void** test() {

}

}