Codoid Interview Task - Selenium

1) Write code for handling multiple windows?

```java
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import java.util.Iterator;
import java.util.Set;

public class multipleWinows {
  public static void main(String[] args) throws InterruptedException {

System.setProperty("webdriver.chrome.driver","C:\Users\durai\Desktop\Java
\chromedriver.exe");
    WebDriver driver = new ChromeDriver();
    driver.manage().window().maximize();
    driver.get("https://demoqa.com/browser-windows");


    driver.findElement(By.id("windowButton")).click();
    driver.findElement(By.id("messageWindowButton")).click();

    String MainWindow = driver.getWindowHandle();
    System.out.println("Main window handle is " + MainWindow);


    Set<String> t1 = driver.getWindowHandles();
    System.out.println("Child window handle is" + t1);
    Iterator<String> s1 = t1.iterator();

      while (s1.hasNext()) {
          String ChildWindow = s1.next();
          if (!MainWindow.equalsIgnoreCase(ChildWindow)) {
              driver.switchTo().window(ChildWindow);
              driver.close();
              System.out.println("Child window closed");
          }
        }
    }
}
```

2) Write code for positive and negative scenarios for Alerts

Possitive Scenarios Example :

    * Validate if the user logs in successfully if the credentials entered are correct

    * Validate if the already logged in user is signed out of the system when logout is clicked

Negative Scenarios Example :

    * Validate if the user is not allowed access when the credentials entered are incorrect.

    * Validate if the user does not log out when logout link is clicked

4) Write code for handling Frames?


```java
import org.openqa.selenium.By;
import org.openqa.selenium.Keys;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import java.util.concurrent.TimeUnit;
public class HandlingFrame {
   public static void main(String[] args) {
      System.setProperty("webdriver.chrome.driver",
"C:\Users\durai\Desktop\Java\chromedriver.exe");
      WebDriver driver = new ChromeDriver();
      String url = "url with frames";
      driver.get(url);
      driver.manage().timeouts().implicitlyWait(12, TimeUnit.SECONDS);

      driver.switchTo().frame(0);

      driver.switchTo().frame("<<name expression>>");

      WebElement name = driver.findElement(By.name("frame-right"));
```

```
        driver.switchTo().frame(driver.findElement(By.name("<<name
expression")));
        driver.quit();
    }
}
```

6) Select multiple options from the dropdown?

```
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.firefox.FirefoxDriver;
import java.util.concurrent.TimeUnit;
import org.openqa.selenium.support.ui.Select
public class MultiDrpDwn{
    public static void main(String[] args) {
        System.setProperty("webdriver.gecko.driver",
            "C:\Users\durai\Desktop\Java\geckodriver.exe");
        WebDriver driver = new FirefoxDriver();
        driver.manage().timeouts().implicitlyWait(5, TimeUnit.SECONDS);
        driver.manage().window().maximize();

driver.get("https://www.tutorialspoint.com/selenium/selenium_automation_p
ractice.htm");
        WebElement d=
driverfindElement(By.xpath("//select[@name='selenium_commands']"));

        Select s=new Select(d);

        List t =s.getOptions();
        System.out.println("Options are: ");
        for (WebElement i: t){
            System.out.println(i.getText());
        }

        Boolean b=s.isMultiple();

        System.out.println("Boolen value for drodown: "+ b);

        s.selectByIndex(2);
        Thread.sleep(1000);

        s.selectByVisibleText("Wait Commands");
        Thread.sleep(1000);

        WebElement f = s.getFirstSelectedOption();
        System.out.println("First selected option is: "+ f.getText());
```

```java
        s.deselectByIndex(2);
        Thread.sleep(1000);

        s.deselectAll();
        driver.close();
    }
}
```

7) How to do file upload in Selenium??

```java
    WebElement upload_file =
driver.findElement(By.xpath("//input[@id='file_up']"));

    upload_file.sendKeys("C:/Users/Durai/Desktop/upload.png");
```

8) Write code for taking Screenshot?

```java
import java.io.File;
import java.io.IOException;

import org.apache.commons.io.FileUtils;
import org.openqa.selenium.OutputType;
import org.openqa.selenium.TakesScreenshot;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

public class Screenshot {

public static void main(String[] args) throws Exception {
System.setProperty("webdriver.chrome.driver",
"C:\Users\durai\Desktop\Java\chromedriver.exe");
WebDriver driver = new ChromeDriver();
driver.get("https://demoqa.com/browser-windows");
TakesScreenshot ts = (TakesScreenshot)driver;
File source = ts.getScreenshotAs(OutputType.FILE);
FileUtils.copyFile(source, new File("./Screenshots/Screen.png"));
System.out.println("the Screenshot is taken");
driver.quit();
}
```

}

10) Write test scenario for Credit Cards?

  * Check the maximum credit limit of the card.

  * Check the maximum withdrawal limit of the credit card.

  * Check whether international transactions are allowed on the card or not.

  * Check whether domestic transactions are allowed or not.

  * Check if the user can withdraw cash using the credit card or not.

  * Check users can withdraw cash by using a valid pin.

  * Check user can withdraw cash by using an invalid pin.

13) How to perform upload files using selenium?

     Upload files using Selenium Webdriver. This is achieved by the
sendKeys method.
     We have to first identify the element which performs the file
selection by mentioning the
     file path [to be uploaded]. This is only applied to an element
having a type attribute set
     to file as a value along with the element tag name as input . The
below code for file upload..

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

```java
import org.openqa.selenium.chrome.ChromeDriver;

import java.util.concurrent.TimeUnit;

public class UploadFiles{

    public static void main(String[] args) {

        System.setProperty("webdriver.chrome.driver",
"C:\Users\durai\Desktop\Java\chromedriver.exe");

        WebDriver driver = new ChromeDriver();

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



driver.get("https://www.tutorialspoint.com/selenium/selenium_automation_p
ractice.htm");

        WebElement m=driver.findElement(By.xpath("//input[@type='file']"));


        m.sendKeys("C:\Users\Pictures\Logo.jpg");

        driver.close();

    }

}
```

15) How to find more than one web element in the list??

    FindElements() command in WebDriver can be used to find more than one
    web elements.