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```

package com.Utility;

import java.awt.AWTException;
import java.awt.Robot;
import java.awt.event.KeyEvent;

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 org.openqa.selenium.chrome.ChromeOptions;
import org.openqa.selenium.edge.EdgeDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.interactions.Actions;

import io.github.bonigarcia.wdm.WebDriverManager;

public class BaseClass {
    public static WebDriver driver; // static declaration to use across
diff. programs.
    public static Actions act;
    public static Robot rbt;

    // 1.EdgeDriver
    public static void launchEdge() {
        WebDriverManager.edgedriver().setup();
        driver = new EdgeDriver();
    }
    // 2.FireFoxDriver
    public static void launchFox() {
        WebDriverManager.firefoxdriver().setup();
        driver = new FirefoxDriver();
    }
    // 3.BraveBrowser
    public static void launchBrave() {
        ChromeOptions options = new ChromeOptions();
        options.setBinary("C:\\Program
Files\\BraveSoftware\\Brave-Browser\\Application\\brave.exe");
        WebDriverManager.chromedriver().setup();
        driver = new ChromeDriver(options);
    }
    // 4.get URL.
    public static void getUrl(String url) {
        driver.get(url);
    }
    // 5.Maximize
    public static void maximize() {
        driver.manage().window().maximize();
    }
    // 6.Send Keys - insert values.
    public static void insertVal(WebElement ele, String val) {
        ele.sendKeys(val);
    }

```

```

}
// 7.Clicking...
public static void tap(WebElement ele) {
    ele.click();
}
// 8.Press Enter key.
public static void pressEnter(WebElement ele) {
    ele.sendKeys(Keys.ENTER);
}
// 9.XPath
public static WebElement findXpath(String tag) {
    return driver.findElement(By.xpath(tag));
}

// 10.Find Name
public static WebElement findName(String tag) {
    return driver.findElement(By.name(tag));
}
// 11.Find ID
public static WebElement findID(String tag) {
    return driver.findElement(By.id(tag));
}
// 12. DragDrop
public static Actions dragAnddrop(WebElement source, WebElement dest){
    Actions act = new Actions(driver);
    return act.dragAndDrop(source, dest);
}
// 13. Hovering
public static void hoverTo(WebElement ele) {
    Actions act = new Actions(driver);
    act.moveToElement(ele).perform();
}
// 16. Selecting Text in textbox.
public static void selectText(WebElement ele) throws AWTException {
    ele.click();
    Robot rbt = new Robot();
    rbt.keyPress(KeyEvent.VK_CONTROL);
    rbt.keyPress(KeyEvent.VK_A);
    rbt.keyRelease(KeyEvent.VK_A);
    rbt.keyRelease(KeyEvent.VK_CONTROL);
}
// 15. Copy using virtual keyboard
public static void copyText(WebElement ele) throws AWTException {
    ele.click();
    Robot rbt = new Robot();
    rbt.keyPress(KeyEvent.VK_CONTROL);
    rbt.keyPress(KeyEvent.VK_C);
    rbt.keyRelease(KeyEvent.VK_C);
    rbt.keyRelease(KeyEvent.VK_CONTROL);
}
// 16. Paste copied content using VK.
public static void pasteText(WebElement ele) throws AWTException {
    ele.click();
    Robot rbt = new Robot();

```

```

        rbt.keyPress(KeyEvent.VK_CONTROL);
        rbt.keyPress(KeyEvent.VK_V);
        rbt.keyRelease(KeyEvent.VK_V);
        rbt.keyRelease(KeyEvent.VK_CONTROL);
    }
    // 17. Ctrl+X command.
    public static void cutText(WebElement ele) throws AWTException {

        Robot rbt = new Robot();
        rbt.keyPress(KeyEvent.VK_CONTROL);
        rbt.keyPress(KeyEvent.VK_X);
        rbt.keyRelease(KeyEvent.VK_X);
        rbt.keyRelease(KeyEvent.VK_CONTROL);
    }
    //18. DoubleClick
    public static void doubleClick(WebElement ele) {
        Actions act = new Actions(driver);
        act.doubleClick(ele).build().perform();
    }
    // 19. RightClick
    public static void rightClick(WebElement ele) {
        Actions act = new Actions(driver);
        act.contextClick(ele).perform();
    }
    // 20.Press Down.
    public static void pressDownArrow(int n) throws AWTException {
        Robot rbt = new Robot();
        for (int i=0; i<n; i++) {
            rbt.keyPress(KeyEvent.VK_DOWN);
            rbt.keyRelease(KeyEvent.VK_DOWN);
        }
        rbt.keyPress(KeyEvent.VK_ENTER);
        rbt.keyRelease(KeyEvent.VK_ENTER);
    }
}

```

## SELENIUM TASK-6

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### QUESTIONS

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#### QUESTION 1

-----

URL : <https://www.facebook.com/>

NOTE: Type email in email textbox and cut the email using Robot class  
Paste that email in password text using Robot class

#### QUESTION 2

-----

URL : <https://www.google.co.in/webhp>

NOTE: Enter Fita Academy and select Fita Academy using double Click  
Cut Fita Academy using Keyboard shortcut[Ctrl+x]

#### QUESTION 3

-----

URL : <https://www.fita.in/>

NOTE: Mouseover course and Mouseover java and rightclick corejava and select  
open in a new tab

#### Question 4

-----

URL : <https://www.instagram.com/>

NOTE: Type a name in email textbox and cut using (control +c) and paste in  
password using (control+v)

#### QUESTION 5

-----

URL : <https://www.amazon.in/>

NOTE: Click login and type a email in email textbox and select email and right  
click and click cut

#### QUESTION 6

-----

URL : <https://www.snapdeal.com/offers/quirky>

NOTE: Select any item and then right click and press open in a new window

#### QUESTION 7

-----

URL : <https://www.flipkart.com/>

NOTE: Select any item and then right click and press Save link as

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```
1 package com.Robot;
2
3 import java.awt.AWTException;
4
5
6
7
8
9 public class Fb_Robot extends BaseClass{
10
11     public static void main(String[] args) throws AWTException, InterruptedException {
12         LaunchEdge();
13         maximize();
14         getUrl("https://www.facebook.com/");
15
16         WebElement name = findName("email");
17         WebElement pass = findName("pass");
18
19         insertVal(name, "JohnWick");
20         selectText(name); //Ctrl+A
21         cutText(name); //Ctrl+X
22         Thread.sleep(1000);
23         pasteText(pass); //Ctrl+V
24         System.out.println(pass.getAttribute("value"));
25     }
26 //Success.
27 }
28
```

## Progress

No operations to display at this time.

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```
1 package com.Robot;
2
3 import java.awt.AWTException;
4
5
6
7
8
9 public class Google_Robot extends BaseClass{
10
11     public static void main(String[] args) throws AWTException, InterruptedException {
12         launchEdge();
13         maximize();
14         getUrl("https://www.google.co.in/");
15
16         WebElement searchbox = findID("APjFqb");
17
18         insertVal(searchbox, "Fita Academy");Thread.sleep(1000);
19         // selectText(searchbox);
20         doubleClick(searchbox); //only selects "Academy" since it's not a select all method.
21         Thread.sleep(1000);
22         cutText(searchbox);
23
24     }
25 //success.
26 }
27
```

## Progress

No operations to display at this time.

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```
1 package com.Robot;
2
3 import org.openqa.selenium.WebElement;
4
5
6
7 public class Fita_robot extends BaseClass{
8
9     public static void main(String[] args) throws InterruptedException {
10         LaunchEdge();
11         maximize();
12         getUrl("https://www.fita.in/");
13
14         WebElement course = findXPath("(//a [contains(text(), 'Courses') ])[1]");
15         hoverTo(course);
16         WebElement java = findXPath("/html/body/header/nav/div/div[1]/div/ul/li[2]/a");
17         hoverTo(java);
18         //RightClick not allowed in webpage.
19         Thread.sleep(2000);
20         WebElement javalink = findXPath("(//a [contains(text(), 'Java') ])[1]");
21         tap(javalink);
22     }
23 }
24
```

## Progress

No operations to display at this time.

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```
1 package com.Robot;
2
3 import java.awt.AWTException;
4
5
6
7
8
9 public class Instagram_Robot extends BaseClass{
10
11     public static void main(String[] args) throws InterruptedException, AWTException {
12         launchEdge();
13         maximize();
14         getUrl("https://www.instagram.com/");
15         Thread.sleep(2000);
16
17         WebElement username = findXPath("//*[@id=\"loginForm\"]/div/div[1]/div/label/input");
18         WebElement pass = findXPath("//*[@id=\"loginForm\"]/div/div[2]/div/label/input");
19
20         insertVal(username, "Rajan");
21         doubleClick(username);
22         cutText(username);
23         pasteText(pass);
24
25     }
26 //Success.
27 }
28
```

## Progress

No operations to display at this time.

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```
1 package com.Robot;
2
3 import java.awt.AWTException;
4
5
6
7
8 public class SnapDeal_Robot extends BaseClass{
9
10     public static void main(String[] args) throws AWTException, InterruptedException {
11         LaunchEdge();
12         maximize();
13         getUrl("https://www.snapdeal.com/");
14
15         WebElement product = findXpath("(//div [@class = 'product_name'])[5]");
16
17         rightClick(product);
18         Thread.sleep(1000); //RightClick
19         pressDownArrow(2); //press down 'n' times then auto click EnterKey.
20     }
21 }
22 //success.
23 }
24
```

Progress

No operations to display at this time.

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```
1 package com.Robot;
2
3 import java.awt.AWTException;
4
5
6
7
8
9 public class Flipkart_RightClick extends BaseClass {
10
11     public static void main(String[] args) throws AWTException {
12         launchEdge();
13         maximize();
14         getUrl("https://www.flipkart.com/");
15
16         WebElement popupX = findXPath("//button [@class = '_2KpZ6l _2doB4z']");
17         tap(popupX);
18
19         WebElement logBtn = findXPath("//*[@id=\"container\"]/div/div[1]/div[1]/div[2]/div[3]/div/div/div/a");
20         rightClick(logBtn);
21         pressDownArrow(4); //press 4 times & enter.
22     }
23 //Success.
24 }
25
```

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