**1. Create an automation script on Facebook & Mortgage calculator using TestNg Framework**

**Facebook:**

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.WebDriver;

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

**import** org.openqa.selenium.support.ui.Select;

**import** org.testng.annotations.Test;

**public** **class** TestNG\_FACEBOOK {

@Test(priority = 1)

//since I did not have main method i used Testng

// add libaray annotation

**private** **void** openbrowser() {

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

WebDriver driver = **new** ChromeDriver(); // calling the driver

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

driver.findElement(By.*id*("u\_0\_c")).sendKeys("Gowen");

driver.findElement(By.*id*("u\_0\_e")).sendKeys("Getter");

driver.findElement(By.*id*("u\_0\_h")).sendKeys("jessey123@live.com");

driver.findElement(By.*id*("u\_0\_o")).sendKeys("MloveMe");

Select dropdownMonth = **new** Select(driver.findElement(By.*id*("month")));

dropdownMonth.selectByIndex(8);

Select dropdownDay = **new** Select(driver.findElement(By.*id*("day")));

dropdownDay.selectByIndex(07);

Select dropdownYear = **new** Select(driver.findElement(By.*id*("year")));

dropdownYear.selectByVisibleText("1967");

driver.findElement(By.*id*("u\_0\_9")).click();

driver.findElement(By.*id*("u\_0\_u")).click();

driver.close();

}

@Test (priority= 2)

**public** **void** login(){

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

WebDriver driver = **new** ChromeDriver(); // calling the driver

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

driver.findElement(By.*id*("email")).sendKeys("jessey123@live.com");

driver.findElement(By.*id*("pass")).sendKeys("MloveMe");

driver.close();

}

Mortgage:

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.WebDriver;

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

**import** org.openqa.selenium.support.ui.Select;

**import** org.testng.annotations.Test;

**public** **class** Mortgage {

@Test(priority = 1)

**private** **void** openbrowser() {

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

WebDriver driver = **new** ChromeDriver(); // calling the driver

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

driver.findElement(By.*id*("homeval")).sendKeys("60000");

driver.findElement(By.*id*("downpayment")).sendKeys("6000");

driver.findElement(By.*id*("loanamt")).sendKeys("540000.00");

driver.findElement(By.*id*("intrstsrate")).sendKeys("5");

driver.findElement(By.*id*("loanterm")).sendKeys("30");

Select month = **new** Select(driver.findElement(By.*name*("param[start\_month]")));

month.selectByIndex(10);

driver.findElement(By.*name*("param[start\_year]")).sendKeys("2050");;

driver.findElement(By.*id*("pptytax")).sendKeys("2400");

driver.findElement(By.*id*("pmi")).sendKeys("0.5");

driver.findElement(By.*id*("hoi")).sendKeys("1200");

driver.findElement(By.*name*("param[hoa]")).sendKeys("800");

Select loan = **new** Select(driver.findElement(By.*name*("param[refiorbuy]")));

loan.selectByValue("2");

Select military\_service = **new** Select(driver.findElement(By.*name*("param[milserve]")));

military\_service.selectByIndex(1);

driver.findElement(By.*name*("cal")).click();

driver.close();

Question 2- screenshot: I used Mortgage to take screenshot

**import** java.io.File;

**import** java.io.IOException;

**import** org.apache.commons.io.FileUtils;

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.OutputType;

**import** org.openqa.selenium.TakesScreenshot;

**import** org.openqa.selenium.WebDriver;

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

**import** org.openqa.selenium.support.ui.Select;

**import** org.testng.annotations.Test;

**public** **class** Mortgage {

@Test(priority = 1)

**private** **void** openbrowser() **throws** IOException, InterruptedException {

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

WebDriver driver = **new** ChromeDriver(); // calling the driver

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

driver.findElement(By.*id*("homeval")).sendKeys("60000");

driver.findElement(By.*id*("downpayment")).sendKeys("6000");

driver.findElement(By.*id*("loanamt")).sendKeys("540000.00");

driver.findElement(By.*id*("intrstsrate")).sendKeys("5");

driver.findElement(By.*id*("loanterm")).sendKeys("30");

Select month = **new** Select(driver.findElement(By.*name*("param[start\_month]")));

month.selectByIndex(10);

driver.findElement(By.*name*("param[start\_year]")).sendKeys("2050");;

driver.findElement(By.*id*("pptytax")).sendKeys("2400");

driver.findElement(By.*id*("pmi")).sendKeys("0.5");

driver.findElement(By.*id*("hoi")).sendKeys("1200");

driver.findElement(By.*name*("param[hoa]")).sendKeys("800");

Select loan = **new** Select(driver.findElement(By.*name*("param[refiorbuy]")));

loan.selectByValue("2");

Select military\_service = **new** Select(driver.findElement(By.*name*("param[milserve]")));

military\_service.selectByIndex(1);

driver.findElement(By.*name*("cal")).click();

Thread.*sleep*(3000);// telling the system to wait

File srcfile=((TakesScreenshot)driver).getScreenshotAs(OutputType.***FILE***);

FileUtils.*copyFile*(srcfile, **new** File("C:\\Users\\PSQA\\Desktop\\mcal.png"));//png is type of file for pics

driver.close();

}

}