STQA Practical Codes

Prac 1: (Login Page)

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Login Page</title>
</head>
<body>
    <h1>Student Login Form</h1>
    <form action="https://google.com">
        Username : <input type="text" name="Username" id="Username" placeholder="Enter Username">
        Password : <input type="password" name="password" id="password" placeholder="Enter password">
        <button type="submit">Login</button>
    </form>
</body>
</html>
```

Prac 3: (RC_Server)

```
package tycspackage;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.chrome.ChromeDriver;
```

```
import org.openqa.selenium.remote.DesiredCapabilities;


public class SeleniumDemo {
	static String driverPath = "D:\\selinium\\geckodriver-v0.33.0-win32\\
geckodriver.exe";
	public static FirefoxDriver driver;
	public static void main(String[] args) {
		int a=10,b=20;
		System.out.println("Hi....");
		System.out.println(a+b);
		System.out.println("Selenium demo.....");
		System.setProperty("webdriver.gecko.driver" ,driverPath);
		//DesiredCapabilities capabilities = DesiredCapabilities.firefox();
		//capabilities.setCapability("marionette" ,true);
		driver= new FirefoxDriver();
		driver.get("https://www.facebook.com/");
		driver.manage().window().maximize();
		driver.findElement(By.name("email")).sendKeys("abcd");
		driver.findElement(By.name("pass")).sendKeys("abcd");
		//driver.quit();
	}
}
```

Prac 4: (Login Verification)

(index.html)

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
```

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Login Page</title>
</head>
<body>
  <div class="container">
    <h2>Login Page</h2>
    <div class="form-group">
      <label for="username">Username:</label>
      <input type="text" id="username" placeholder="Enter your username">
    </div>
    <div class="form-group">
      <label for="password">Password:</label>
      <input type="password" id="password" placeholder="Enter your password">
    </div>
    <button class="btn" onclick="login()">Login</button>
    <div class="success-message" id="successMessage" style="display: none">
      Login Successful! Welcome!
    </div>
  </div>
 <script>
    function login() {
      const username = document.getElementById('username').value;
      const password = document.getElementById('password').value;
      const successMessage = document.getElementById('successMessage');
      // Simulate a successful login by checking if username and password are not
empty
      if (username && password) {
        const message = `Username: ${username}\nPassword: ${password}`;
        var yes=window.confirm(message,"Do you want to proceed?");
```

```
        if (yes){
          successMessage.style.display = 'block';
        }
      }
    }
  </script>
</body>
</html>
```

(App.py):

```
import time
from selenium import webdriver
from selenium.webdriver.common.by import By
from selenium.webdriver.chrome.service import Service
from selenium.webdriver.chrome.options import Options
def main():
  options =Options()
  options.add_experimental_option("excludeSwitches" , ["enable-automation"])
  service = Service(r"C:\selenium\chromedriver-win64\chromedriver-win64\
chromedriver.exe")
  driver = webdriver.Chrome(options=options ,service=service)
  url = 'https://www.facebook.com/'
  driver.get(url)
  time.sleep(1)
  email = driver.find_element(By.ID, 'email')
  email.send_keys("youremail@gmail.com")
  time.sleep(1)
  password =driver.find_element(By.ID, "pass")
  password.send_keys("yourpassword")
  time.sleep(1)
```

```
  btn =driver.find_element(By.XPATH
,'/html/body/div[1]/div[1]/div[1]/div/div/div/div[2]/div/div[1]/form/div[2]/button')
  btn.click()
  time.sleep(4)
main()
```

(Test.py):

```
import time
from selenium import webdriver
from selenium.webdriver.common.by import By
from selenium.webdriver.chrome.service import Service
from selenium.webdriver.chrome.options import Options
def main():
  options =Options()
  options.add_experimental_option("excludeSwitches" , ["enable-automation"])
  service = Service(r"C:\selenium\chromedriver-win64\chromedriver-win64\
chromedriver.exe")
  driver = webdriver.Chrome(options=options ,service=service)
  url = 'http://127.0.0.1:5500/myLoginPage.html'
  driver.get(url)
  time.sleep(1)
  email = driver.find_element(By.ID, 'username')
  email.send_keys("youremail@gmail.com")
  time.sleep(1)
  password =driver.find_element(By.ID, "password")
  password.send_keys("yourpassword")
  time.sleep(1)
  btn =driver.find_element(By.XPATH , '/html/body/div/button')
  btn.click()
  time.sleep(40)
```

```
main()
```

Prac 7: Object Identification

```
# pip install selenium
from selenium import webdriver
from selenium.webdriver.common.by import By
from selenium.webdriver.support.ui import WebDriverWait
from selenium.webdriver.support import expected_conditions as EC
driver = webdriver.Edge()
driver.get("https://www.google.com")
web_object_elements
=['object','embed','img','a','textarea','audio','video','iframe','table','input']
web_page_elements = set()
wait = WebDriverWait(driver,1000)
wait.until(EC.presence_of_all_elements_located((By.XPATH,"//*")))
elements = driver.find_elements(By.XPATH,"//*")
for element in elements:
    if element.tag_name in web_object_elements:
        if element.tag_name == "input":
            web_page_elements.add(element.get_attribute('type'))
        web_page_elements.add(element.tag_name)
print(web_page_elements)
print("The count is:",len(web_page_elements))
driver.close()
```

Prac 8: Element Diagram

(index.html)

```
<!DOCTYPE html>
<html lang="en">
```

```
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Combo Box Example</title>
</head>
<body>
    <h1>Select an Option:</h1>
    <label for="myComboBox">Choose an option:</label>
    <select id="myComboBox">
        <option value="option1">Option 1</option>
        <option value="option2">Option 2</option>
        <option value="option3">Option 3</option>
    </select>
<!-- <p>Selected option: <span id="selectedOption"></span></p> -->
<!-- <script>
        // JavaScript code to capture the selected option
        const comboBox = document.getElementById("myComboBox");
        const selectedOption = document.getElementById("selectedOption");
             comboBox.addEventListener("change", function() {
            selectedOption.textContent = comboBox.value;
        });
    </script> -->
</body>
</html>
```

(app.py):

```
from flask import Flask,render_template
app= Flask(__name__)
@app.get('/')
def get_home():
```

```
    return render_template('index.html')
app.run()
```

(test.py):

```
from selenium import webdriver
from selenium.webdriver.common.by import By
driver=webdriver.Edge()
driver.get("http://127.0.0.1:5000/")
select = driver.find_element(By.ID,'myComboBox')
options = select.find_elements(By.TAG_NAME,'option')
count=0
for option in options:
    print(option.text+" "+option.get_attribute('value'))
    count +=1
print("Count:",count)
driver.quit()
```

Prac 9: (CheckBox)

(index.html)

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Checkbox Test Page</title>
</head>
<body>
```

```
    <div class="container">
        <h1>Checkbox Test Page</h1>
        <form>
            <label for="option1">
                <input type="checkbox" id="option1" name="option1" value="Option 1">
Option 1
            </label>
            <label for="option2">
                <input type="checkbox" id="option2" name="option2" value="Option 2"
checked> Option 2
            </label>
            <label for="option3">
                <input type="checkbox" id="option3" name="option3" value="Option 3">
Option 3
            </label>
            <label for="option4">
                <input type="checkbox" id="option4" name="option4" value="Option 4"
checked> Option 4
            </label>
            <br>
            <button type="submit" class="submit-button">Submit</button>
        </form>
    </div>
</body>
</html>
```

(app.py):

```
from flask import Flask,render_template
app = Flask(__name__)
@app.get("/")
def index():
```

```
    return render_template("index.html")
app.run()
```

(test.py):

```
from selenium import webdriver
from selenium.webdriver.common.by import By
driver = webdriver.Edge()
driver.get("http://localhost:5000/")
checkboxes = driver.find_elements(By.XPATH,"//input[@type='checkbox']")
checked=0
unchecked = 0
for checkbox in checkboxes:
    if checkbox.is_selected():
        checked+=1
    else:
        unchecked+=1
print("Total checkboxes:",len(checkboxes))
print("Checked:",checked)
print("Unchecked:",unchecked)
driver.quit()
```