# Selenium Assignment Questions

### Assignment 1

- 1. Download and launch the "dropdown.html" file.
- 2. Select date 05-05-2005 from the dropdown and validate the same.
- 3. Fetch the year from the dropdown and validate the year in Ascending Order.
- 4. Objective:
  - Open dropdown.html
  - Select 05-05-2005
  - Validate values
  - Validate years in ascending order
- 5. ```java

```
WebDriver driver = new ChromeDriver();
driver.get("file:///C:/Users/Desktop/dropdown.html");
```

- Select day = new Select(driver.findElement(By.id("day")));
   Select month = new Select(driver.findElement(By.id("month")));
   Select year = new Select(driver.findElement(By.id("year")));
- day.selectByVisibleText("05");
   month.selectByVisibleText("May");
   year.selectByVisibleText("2005");
- assert day.getFirstSelectedOption().getText().equals("05");
   assert month.getFirstSelectedOption().getText().equals("May");
   assert year.getFirstSelectedOption().getText().equals("2005");
- 9. List<WebElement> yearOptions = year.getOptions();

```
List<String> years =
yearOptions.stream().map(WebElement::getText).collect(Collectors.toList());
List<String> sorted = new ArrayList<>(years);
Collections.sort(sorted);
assert years.equals(sorted);
10. driver.quit();
```

. .

11. ---

#### Dropdown.html

### **Assignment 2**

- 1. Download and launch the "Assignment.html" file.
- 2. Launch the file.
- 3. Read the table and find the unique rows from the table.

#### Assignment.html

```
Objective: Load Assignment.html and extract unique rows.
```

```
WebDriver driver = new ChromeDriver();
driver.get("file:///C:/Users/Desktop/Assignment.html");
List<WebElement> rows = driver.findElements(By.xpath("//table/tbody/tr"));
Set<String> uniqueRows = new LinkedHashSet<>();
for (WebElement row : rows) {
    uniqueRows.add(row.getText());
}
for (String row : uniqueRows) {
    System.out.println(row);
}
driver.quit();
```

### Assignment 3

2022 Elections

#### Each question is state wise

- 1. Output should be name of constituency, candidate name, and vote number/percentage or whatever is the deciding factor, dump all the data in excel with column (all column+state+constituency name).
- 2. get the candidate which has got the maximum vote in each state with their constituency name.
- 3. get the candidate which has got the maximum percentage of vote in each state with their constituency name. (percentage)
- 4. candidate who won with maximum vote difference.
- 5. candidate who won with maximum vote percentage difference.
- 6. candidate who won with the minimum vote.
- 7. candidate who won with minimum vote percentage.
- 8. total count of candidate who have got less vote than nota.
- 9. total count of candidates who have gotten greater than 50% vote.
- 10. name of candidate who has got minimum vote in each state.

#### Objective:

```
- Extract data from state-wise election pages
- Dump into Excel
- Derive metrics
```python
from selenium import webdriver
from selenium.webdriver.common.by import By
import pandas as pd
driver = webdriver.Chrome()
data = []
state urls = {
  "Goa":
"https://results.eci.gov.in/ResultAcGenMar2022/ConstituencywiseS0510.htm?ac=
10",
for state, url in state_urls.items():
 driver.get(url)
  constituency = driver.find element(By.XPATH,
```

```
"//span[@id='ctl00_ContentPlaceHolder1_lblACName']").text
  rows = driver.find_elements(By.XPATH, "//table[2]//tr")
for row in rows[1:]:
   cells = row.find_elements(By.TAG_NAME, "td")
   if len(cells) >= 4:
     data.append({
       "State": state,
       "Constituency": constituency,
       "Candidate": cells[0].text,
       "Party": cells[1].text,
       "Votes": int(cells[2].text.replace(",", "")),
       "Percentage": float(cells[3].text.replace('%', ")) if cells[3].text else 0.0
     })
driver.quit()
df = pd.DataFrame(data)
df.to_excel("election_data.xlsx", index=False)
**Post-processing:**
```python
max_vote_per_state = df.loc[df.groupby('State')['Votes'].idxmax()]
max_pct_per_state = df.loc[df.groupby('State')['Percentage'].idxmax()]
```

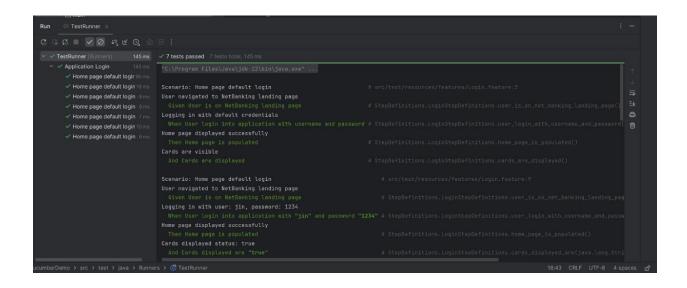
## Assignment 4

Please do the following assignment for cucumber framework -

- 1. Install Cucumber
- 2. Create a Cucumber project
- 3. Use the attached feature file and implement the stepDefinitions for all the scenarios in the feature file. (You can use dummy code in the stepDefinition methods)

Login.feature

- 4. Execute TestRunner.
- 5. Assign tags to specific scenarios in the feature file and execute TestRunner for those particular tags.



#### **Assignment 5**

Please do the following assignment for TestNG framework -

- 1. Install TestNG
- 2. Create a TestNG Project
- 3. Create 2 test classes (with 3 test cases each).
- 4. Keep the 2 test classes in 2 different <test> tags in testng.xml
- 5. Execute the tests above using testng.xml
- 6. Assign a group to a few test cases and update testng.xml to run test cases belonging to the group.
- 7. Assign priority to the test cases.

Once completed, please share the below files -

- testng.xml
- 2 test class files created

- Final Console Output (in a .txt file)

