

4. Handling Various Web Elements

1. Edit box

- Open Eclipse
- It is a basic text control that enables a user to type a small amount of text.
- Operations on Edit box
 - Enter a Value,
 - Clear the Value,
 - Check enabled status,
 - Check edit box existence,
 - Get the value

2. Link

- link is more appropriately referred to as a hyperlink and connects one web page to another. It allows the user to click their way from page to page.
- Operations on Link
 - Click Link,
 - Check the link existence,
 - Check the link enabled status,
 - Return the Link Name

3. Button

- This represents a clickable button, which can be used in forms and places in the document that needs a simple, standard button functionality.
- Operations on Button
 - Click
 - Check Enabled status

- Display status

4. Image, image link, an image button

- It helps in performing actions on images like clicking on the image link or the image button, etc.
- Operations Image
 - Three types of Image elements in Web Environment
 - General Image (No functionality)
 - Image Button (Submits)
 - Image Link (Redirects to another page/location)

5. Text area

- It is an inline element used to designate a plain-text editing control containing multiple lines.
- Return / Capture Text Area or Error message from a web page

6. Checkbox

- This is a selection box or a tick box which is a small interactive box that can be toggled by the user to indicate an affirmative or a negative choice.
- Operations on Check box
 - Check if the check box is displayed or not?
 - Check if the check box is enabled or not?
 - Check if the check box is Selected or not?
 - Select the Check box
 - Unselect the Check box

7. Radio button

- It is an option button which is a graphical control element that allows the user to choose only one predefined set of mutually exclusive options.
- Operations on Radio Button
 - Select Radio Button
 - Verify if the Radio Button is Displayed or not?
 - Verify if the Radio Button is enabled or not?
 - Verify if the Radio Button is Selected or not?

- Example:

```
oRadioButton.get(1).click();
```

8. Dropdown list

- It is a graphical control element, similar to the list box, which allows the user to choose one value from the list. When this drop-down list is inactive, it displays only a single value.
- Operations on Drop down list
 - Check the Dropdown box existence
 - Check if the Drop down is enabled or not?
 - Select an item
 - Items Count

- Example:

```
Select fruits = new Select(driver.findElement(By.id("fruits")));  
fruits.selectByVisibleText("Banana");  
fruits.selectByIndex(1);
```

9. Web table /HTML table

- Operations on Web table /HTML Table
 - Get cell value

- Rows Count
- Cells Count

10. Frame

- Operations on Frame
 - Switch from Top window to a frame
 - Switch from a frame to Top window
- Example
 - `driver.switchTo().frame("iframe1");`
 - `driver.switchTo().frame("id of the element");`

11. Switching between tabs in same browser window

- Operations on Switching between tabs in same browser window
- Open a new tab using Ctrl + t
- Driver control automatically switches to the newly opened tab
- Perform the required operations here.
- Next switch back to the old tab using Ctrl + Tab. You need to keep pressing this unless you reach the desired tab.
- Once the desired tab is reached, then perform the operations in that tab.
- Example:


```
driver.switchTo().window(tabs2.get(1));
driver.switchTo().window(tabs2.get(0));
```

Pushing the code to your GitHub repositories : -

- Open your folder where the Project . And then click the right button to open the git bash command prompt.
- Before that, open the github and create a new repository.
- Initialize your repository using the following command:

`git init`

- Add all the files to your git repository using the following command:

`git add .`

- To check the status of the repository use the below command:

git status

- Commit the changes using the following command:

git commit . -m "Changes have been committed."

- To add the files to the repository use the (URL) from the github and use the command;

git remote add origin <url>

- Push the files to the folder you initially created using the following command:

git push origin master.