FindElements() and handling the dropdown:

findElements(): It is a method which is used to locate multiple webElements over a webpage by using single locator.

It is generally used to handle the common component by using loops.

The return type of findElements is **List<WebElement>.**

findElement() vs findElements():

findElement is used to locate single webElement over the webpage where as findElements is used to locate multiple webElements over a webpage.

Return type of findElement is WebElement and return type of findElements is **List<WebElement>.**

Handling of drop down using findElements:

```java
        public static void main(String[] args) {


System.setProperty("webdriver.chrome.driver",
"E:\\desktop\\Katraj\\15 Jan\\Selenium\\chromedriver.exe");


            WebDriver driver = new ChromeDriver();// chrome
browser will get open
```

```java
            driver.manage().window().maximize();// to maximize
the window

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

     List<WebElement> daydropdown =
driver.findElements(By.xpath("//select[@id='day']//option"));


//          for(WebElement value:daydropdown)
//          {
//                  String d = value.getText();
//
//                  System.out.println(d);
//
//                  if(d.equals("18"))
//                  {
//                          value.click();
//                  }
//          }


            int numberofoptions = daydropdown.size();// size
method is used to get the total number of webelements that we
have located.

            for(int i=0; i<numberofoptions; i++ )
            {
                  String dayvalue = daydropdown.get(i).getText();

                  System.out.println(dayvalue);
```

```
        }
```

Handling of dropdown:

There are 2 types of dropdown:

1. Dropdown with Select tag

2. Bootstrap dropdown

1. Dropdown with Select tag: A dropdown whose tag name is Select then that particular dropdown is known as dropdown with select tag.

To handle the dropdown we have to Select Class:

First way using selectByVisibleText(String value):

```java
public static void main(String[] args) {
        System.setProperty("webdriver.chrome.driver",
"E:\\desktop\\Katraj\\15 Jan\\Selenium\\chromedriver.exe");

        WebDriver driver = new ChromeDriver();// chrome
browser will get open

        driver.manage().window().maximize();// to maximize
the window
        driver.get("https://www.facebook.com/signup");

        WebElement day =
driver.findElement(By.xpath("//*[@id='day']"));
```

```java
Select sel = new Select(day);

sel.selectByVisibleText("20");
```

Second way : selectByValue:

```java
System.setProperty("webdriver.chrome.driver",
"E:\\desktop\\Katraj\\15 Jan\\Selenium\\chromedriver.exe");

		WebDriver driver = new ChromeDriver();// chrome
browser will get open

		driver.manage().window().maximize();// to maximize
the window

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

WebElement month =
driver.findElement(By.xpath("//*[@id='month']"));

		Select selmonth = new Select(month);

		selmonth.selectByValue("8");
```

Third way: selectByIndex():

```java
System.setProperty("webdriver.chrome.driver",
"E:\\desktop\\Katraj\\15 Jan\\Selenium\\chromedriver.exe");

		WebDriver driver = new ChromeDriver();// chrome
browser will get open

		driver.manage().window().maximize();// to maximize
```

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

WebElement year = driver.findElement(By.*xpath*("//*[@id='year']"));

Select selyear = **new** Select(year);

selyear.selectByIndex(10);

Bootstrap dropdown: To handle the bootstrap dropdown we have to first click on the dropdown and select the individual option to select it by finding the locator.

To detect the bootstrap dropdown we need to check the tagname if it is not 'Select' then it is bootstrap dropdown

Example:

```java
public static void main(String[] args) throws InterruptedException {
		System.setProperty("webdriver.chrome.driver", "E:\\desktop\\Katraj\\15 Jan\\Selenium\\chromedriver.exe");

		WebDriver driver = new ChromeDriver();// chrome browser will get open

		driver.manage().window().maximize();// to maximize the window

		driver.get("https://zoom.us/signup");

		Thread.sleep(3000);

		driver.findElement(By.xpath("//*[@class='onetrust-close-btn-handler onetrust-close-btn-ui banner-close-button ot-close-icon']")).click();


		WebElement month = driver.findElement(By.xpath("//*[@id='select-0']"));

		month.click();

		Thread.sleep(2000);
```

```java
        driver.findElement(By.xpath("//*[@id='select-item-select-0-4']")).click();
    }

}
```