How To Verify Maximum Character Limit of an Input Box Through Selenium

Hello Folks,

Recently a guy asked me this question which he was asked in an interview in IBM.

> **What the ways to test maximum character limit of an input box through Selenium?**

To achieve this in Selenium, we have two ways:

Suppose maximum character limit of an input box is 10 characters.

1. Type more than 10 characters. It will get typed only first 10 characters and remaining will be ignored. Now get the typed value and assert its length to10.
2. Get the attribute value of "maxlength" and assert it to10. "maxlength" is a property which is defined to set maximum allowed character limit for an input box.

Both ways are correct and can be used whatever you feel easy.

Html Code:

```
1  FirstName : <input type="text" name="username" maxlength="10">
```

Java Code:

```
1   package HandlingDropdown;
2
3   import org.openqa.selenium.By;
4   import org.openqa.selenium.WebDriver;
5   import org.openqa.selenium.WebElement;
6   import org.openqa.selenium.chrome.ChromeDriver;
7
8   public class VerifyMaxCharLimit {
9
10      public static void main(String[] args) throws InterruptedException {
11
12          System.setProperty("webdriver.chrome.driver", "./exefiles/chromedriver.exe");
13          WebDriver driver = new ChromeDriver();
14          driver.get("file:///C:/Users/amodm/Downloads/InputWithMinMax.html");
15
16          // Locating firstname web element
17          WebElement firstNameInputbox = driver.findElement(By.name("username"));
```

```
18
19          /***************** Way 1 *******************************/
20
21          // Type more than 10 characters as max limit is defined as 10 as per requirement
22          firstNameInputbox.sendKeys("Makeseleniumeasy");
23
24          // Get the typed value
25          String typedValue = firstNameInputbox.getAttribute("value");
26
27          // Get the length of typed value
28          int size = typedValue.length();
29
30          // Assert with expected
31          if (size == 10) {
32              System.out.println("Max character functionality is working fine.");
33          }
34
35          else {
36              System.out.println("No limit is set.");
37          }
38
39          /*********************** Way 2 *******************************************/
40
41          // Clear already typed value.
42          firstNameInputbox.clear();
43          ;
44
45          // Get maxlength attribute of input box
46          String maxLengthDefined = firstNameInputbox.getAttribute("maxlength");
47
48          if (maxLengthDefined == null) {
49              System.out.println("No limit is set.");
50          }
51
52          else {
53              if (maxLengthDefined.equals("10")) {
54                  System.out.println("Max character limit is set as expected.");
55              }
56          }
57
58          // Closing driver
59          driver.quit();
60
61      }
62 }
```

Output:

```
1 | Max character functionality is working fine.
2 | Max character limit is set as expected.
```