
Keys

- Selenium provides an ENUM type Keys to perform the keyboard actions.
- All the pressable keys are stored in the KEYS.
- All the keys are stored in Keys as a constants.
- These keys will be used as an argument for send_keys method.
- Following are the ENUM constant.

Enum Constant
ADD
ALT
ARROW_DOWN
ARROW_LEFT
ARROW_RIGHT
ARROW_UP
BACK_SPACE
CANCEL
CLEAR
COMMAND
CONTROL
DECIMAL
DELETE
DIVIDE
DOWN
END
ENTER
EQUALS
ESCAPE
F1
F10

F11

F12

F2

F3

F4

F5

F6

F7

F8

F9

HELP

HOME

INSERT

LEFT

LEFT_ALT

LEFT_CONTROL

LEFT_SHIFT

META

MULTIPLY

NULL

NUMPAD0

NUMPAD1

NUMPAD2

NUMPAD3

NUMPAD4

NUMPAD5

NUMPAD6

NUMPAD7

NUMPAD8

NUMPAD9

PAGE_DOWN

PAGE_UP

PAUSE

RETURN

RIGHT

SEMICOLON

SEPARATOR

SHIFT

SPACE

SUBTRACT

TAB

UP

Write a script to click on enter without using the click method

```
package keys;

import java.util.concurrent.TimeUnit;

import org.openqa.selenium.By;
import org.openqa.selenium.Keys;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

public class Keys_Enter {
    public static void main(String[] args) throws InterruptedException {
        System.setProperty("webdriver.chrome.driver", "D:/Softwares/Drivers/chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.manage().window().maximize();
        driver.get("https://demo.actitime.com/");
        driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);

        WebElement userName = driver.findElement(By.id("username"));
        userName.sendKeys("Admin");
        WebElement passWord = driver.findElement(By.name("pwd"));
        passWord.sendKeys("manager");
        WebElement loginButton = driver.findElement(By.id("loginButton"));
        loginButton.sendKeys(Keys.ENTER);

        Thread.sleep(5000);
        driver.close();
    }
}
```

Activate Windows

Write a script to clear the text entered in text box without using the clear method

```
package keys;

import java.util.concurrent.TimeUnit;
import org.openqa.selenium.By;
import org.openqa.selenium.Keys;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

public class Keys_Delete {
    public static void main(String[] args) throws InterruptedException {
        System.setProperty("webdriver.chrome.driver", "D:/Softwares/Drivers/chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.manage().window().maximize();
        driver.get("https://demo.actitime.com/");
        driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);

        WebElement userName = driver.findElement(By.id("username"));
        userName.sendKeys("Admin");
        Thread.sleep(5000);
        userName.sendKeys(Keys.CONTROL + "a");
        userName.sendKeys(Keys.DELETE);

        driver.close();
    }
}
```

Write a script to copy & paste the value present in one text box into another text box?

```
package keys;

import java.util.concurrent.TimeUnit;
import org.openqa.selenium.By;
import org.openqa.selenium.Keys;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

public class Keys_A {
    public static void main(String[] args) throws InterruptedException {
        System.setProperty("webdriver.chrome.driver", "D:/Softwares/Drivers/chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.manage().window().maximize();
        driver.get("https://demo.actitime.com/");
        driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);

        WebElement userName = driver.findElement(By.id("username"));
        WebElement password = driver.findElement(By.name("pwd"));
        userName.sendKeys("Admin");
        Thread.sleep(5000);
        userName.sendKeys(Keys.CONTROL + "a");
        userName.sendKeys(Keys.CONTROL + "c");
        password.sendKeys(Keys.CONTROL + "v");

        driver.close();
    }
}
```

Write a script to clear the text present in the text box by pressing back space?

```
package keys;

import java.util.concurrent.TimeUnit;
import org.openqa.selenium.By;
import org.openqa.selenium.Keys;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

public class Keys_backSpace {
    public static void main(String[] args) throws InterruptedException {
        System.setProperty("webdriver.chrome.driver", "D:/Softwares/Drivers/chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.manage().window().maximize();
        driver.get("https://demo.actitime.com/");
        driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);

        WebElement userName = driver.findElement(By.id("username"));
        userName.sendKeys("Adminmanageradmin");
        String userNameTextBoxValue = userName.getAttribute("value");
        int count = userNameTextBoxValue.length();
        for(int i=1; i<=count; i++)
        {
            userName.sendKeys(Keys.BACK_SPACE);
        }
        Thread.sleep(5000);
        driver.close();
    }
}
```

Write a program to launch the link in new tab

```
package keys;

import java.util.concurrent.TimeUnit;
import org.openqa.selenium.By;
import org.openqa.selenium.Keys;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

public class Keys_New_tab {
    public static void main(String[] args) throws InterruptedException {
        System.setProperty("webdriver.chrome.driver", "D:/Softwares/Drivers/chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.manage().window().maximize();
        driver.get("https://docs.seleniumhq.org/");
        driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);

        WebElement download = driver.findElement(By.xpath("//a[@title='Get Selenium']"));
        download.sendKeys(Keys.CONTROL , Keys.ENTER);

        Thread.sleep(5000);
        driver.quit();
    }
}
```

Program to launch the link in new window

```
package keys;

import java.util.concurrent.TimeUnit;
import org.openqa.selenium.By;
import org.openqa.selenium.Keys;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

public class Keys_new_window {
    public static void main(String[] args) throws InterruptedException {
        System.setProperty("webdriver.chrome.driver", "D:/Softwares/Drivers/chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.manage().window().maximize();
        driver.get("https://docs.seleniumhq.org/");
        driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);

        WebElement download = driver.findElement(By.xpath("//a[@title='Get Selenium']"));
        download.sendKeys(Keys.SHIFT , Keys.ENTER);

        Thread.sleep(5000);
        driver.quit();
    }
}
```