26-FEB-2020

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Typecasting - conversion of datatype from one to another

E.g.--> int to float

Ex:44: Write a script to perform scrollbar operations in Rediffmail page

//to Initialize browser

System.setProperty("webdriver.gecko.driver", "D:\\SelResource\\geckodriver.exe");

WebDriver driver=new FirefoxDriver();

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

driver.manage().window().maximize();

Thread.sleep(3000);

JavascriptExecutor js=((JavascriptExecutor)driver);

//scroll down

js.executeScript("window.scrollBy(0,2500)");

Thread.sleep(3000);

//scroll up

js.executeScript("window.scrollBy(0,-1000)");

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\*\*\*Ex-45

Write script to navigate URL, to generate browser popup (i.e Java Alert) and to enter value in "username" editbox using JavascriptExecutor

//to Initialize browser

System.setProperty("webdriver.gecko.driver", "D:\\SelResource\\geckodriver.exe");

WebDriver driver=new FirefoxDriver();

driver.manage().window().maximize();

JavascriptExecutor js=((JavascriptExecutor)driver);

//to navigate URL

js.executeScript("window.location='https://login.salesforce.com'");

Thread.sleep(5000);

js.executeScript("window.alert('Hi, I am JavaScriptExecutor Running')");

Thread.sleep(4000);

//to read msg from java alert

String msg=driver.switchTo().alert().getText();

System.out.println(msg);

//to close java alert

driver.switchTo().alert().accept();

//to enter user name using JavascriptExecutor

js.executeScript("window.document.getElementById('username').value='MadhukarQAIT'");

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Note:

Using JavascriptExecutor

// To navigate URL

js.executeScript("window.location='url'");

---> We would prefer get() method only

// To generate java alert

js.executeScript("window.alert("This, ia an alert')");

--- Here window is 'browser'

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Ex-46:

Write script to highlight "username" editbox at salesforce application

//to Initialize browser

System.setProperty("webdriver.gecko.driver", "D:\\SelResource\\geckodriver.exe");

WebDriver driver=new FirefoxDriver();

driver.get("https://login.salesforce.com");

driver.manage().window().maximize();

//type-cate driver to JSExecutor

JavascriptExecutor js=((JavascriptExecutor)driver);

//Create reference object for WebElement (i.e. username editbox)

WebElement ele=driver.findElement(By.id("username"));

//to highlight username editbox

js.executeScript("arguments[0].setAttribute('style','background: yellow; border: 2px dashed red')",ele);

Note:

---> Javaexecutor scripts only for Interview point of view

--> Will not be using in real time

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JAVA CONCEPTS -3

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try

{

}

catch

{

}

EXCEPTIONAL HANDLING

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Exception handle is a set of code that handles an exception

There are 2 types of exceptions

i. Compile time exceptions

ii. Runtime exceptions

i. Compile time Exceptions:

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These are 2 types

a. Syntax errors

Ex. String a;

Stng a; ----> Syntax error

b. Semantic errors

Same variable may be declared twice

Ex: int a;

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int a; ---> Semantic error/ Duplicate variable

Note: These can be highlighted in red, in Eclipse while writing the programs by default it will compile

ii. Runtime Exceptions:

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Which interrupts the normal flow of program execution

Good program should handle all the exceptions and continue with its normal flow of program execution

Exceptions can be handled in Java using " try and catch " block

Syntax: { for - try & catch }

try {

statement(s)

}

catch (Exception exception- name){

statement(s)

}

Note: The finally block is executed irrespective of an exception being raised in the try block.

--> It is an optional to use with a try block

Syntax: { try & catch with finally }

try{

statement(s)

}

catch(Exception Exception\_name){

statement(s)

}

finally{

statement(s)

}

If there is no interupption in try block it will not go to catch block

Ex: For Exception Handling

// Exception Handling Example

try {

int a=10;

int b=0;

int c=a/b;

System.out.println(c);

}

catch(Exception e) {

System.out.println("b- value should not be zero" );

System.out.println(e);

}

finally {

System.out.println("Demo for Exceptional Handling");

}

===============================================================END OF CLASS=========================================================================================