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Selenium Java Training - Session 8 - Java (Part 6) - Consturctors, this keyword, Overloading and Packages

<u>Java (Part 6) - Constructors, this keyword, Overloading and Packages</u>

Constructors

Constructors are similar to methods, but have the below differences:

- Demonstrate the constructors having the below qualities here
 - o Constructors have the same name as Class name
 - Constructors are automatically called when an object is created for the Class
 - Constructors won't have any return type Return types like void, int etc won't be available for constructors
 - Empty hidden Constructor will be called, when an object is created for the Class not specified with explicit constructors
- Constructors simplify the initialization of variables
 - Demonstrate initialization of variables without using constructors Demonstrate here
 - Demonstrate initialization of variables with constructors Demonstrate here

this keyword

The purpose of the this keyword is to differentiate the <u>instance variable with the parameterized variables</u> of methods/constructors.

- Using this keyword with Methods
 - Demonstrate the program which dont use this keyword Demonstrate <u>here</u>
 - Demonstrate the advantage of using this keyword with methods Demonstrate <u>here</u>
- · Using this keyword with Constructors
 - Generally required for constructors, as constructors are automatically called when objects are created and there by all the required variables will be initialized automatically
 - o Similar to methods.

Overloading

Duplicate methods/constructor names are allowed inside the same class, as long as their parameters count or declaration or order of parameters are different.

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Two or more methods having the same name can be created inside their parameters count or declaration are different.

- Method overloading
- Compiler error will be displayed when more than one method has the same name Demonstrate here
- Demonstrate how method overloading concept can avoid compiler error Demonstrate here

constructor overloading

- The same concept of method overloading when applied to constructors is known as constructor overloading
 - In this case, the constructors are said to be overloaded and the concept is known as Constructor overloading

Packages

Packages are created to group related classes/interfaces/other files.

- We generally group things to organize them better for locating them easily.
- Default package Create a new Java project say Facebook and Create a new Java Class say 'FacebookLogin' and observed that a default package will be created. - view <u>here</u>
- Package creation Create a new Java project say Facebook and group the Classes under various packages - view <u>here</u>
- Demonstrate Accessing instances variables and methods from other class which is under the same package
- Demonstrate Importing the Classes in the other packages while accessing the instance variables and methods created in the Classes which are under other packages
- Demonstrate Using * in the import statements to import all the classes in the package instead of importing a single class every time

By, Arun Motoori

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