9/5/2019 Evernote Export

Overloading

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

· method overloading

- Two or more methods having the same name can be created inside a single class as long as their parameters count or declaration are different.
 - In this case, the methods are said to be overloaded and the concept is knows as 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 here
- Package creation Create a new Java project say Facebook and group the Classes under various packages view here
- 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

Inheritance

Inheritance is a mechanism in which one class acquires the properties (i.e. variables and methods) of another class

- The purpose of this Inheritance is to use the properties (i.e. methods and variables) inside a class instead of recreating the same properties again in new class.
- Child class acquires the properties (i.e. variables and methods) of Parent Class.
- Child class uses **extends** keyword to inherit the properties from parent class
- Demonstrate a child class which inherits the properties from Parent Class Demonstrate here
 - Child class can have specific properties (i.e. variables and methods) which are not available in the parent class
 - Object created for parent class can access the variables and methods that are created in parent class only. It cannot access the child class properties.
 - Object created for child class which is inheriting the parent class can access the variables and methods of both parent class and child class.