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Method overloading:

Ex: create class with Method overloading concept

public class MethodOL {

public void demoOne(int a, int b){

int c= a\*b;

System.out.println("multiplication of given values is: "+c);

}

public void demoOne(String x, String y){

String z= x+y;

System.out.println(z);

}

public static void main(String[] args) {

MethodOL ml= new MethodOL();

ml.demoOne(5, 6);

ml.demoOne("Live", "Tech");

}

}

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Constructor:

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Ex: create class with constructor

public class ConstEx {

public ConstEx(){

System.out.println("this is sample script");

}

public static void main(String[] args) {

ConstEx ce= new ConstEx();

}

}

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Constructor overloading:

ex: create class with Constructor overloading

public class ConstEx {

public ConstEx(int a, int b){

int c= a\*b;

System.out.println("multiplication of given values is: "+c);

}

public ConstEx(String x, String y){

String z= x+y;

System.out.println(z);

}

public static void main(String[] args) {

ConstEx ce= new ConstEx(5,6);

ConstEx cex= new ConstEx("Live","Tech");

}

}

-----------------------------------------------------------------------

Inheritance:

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ex: create 2 classes and reuse the the methods from one class to another class

procedure:

step 1: create parent class {i.e. ParentClass} with 2 submethods and without

main method (i.e. non-executable class)

script:

package oops.concepts;

public class ParentClass {

public void setUp(){

System.out.println("To initialize browser and to open Url");

}

public void tearDown(){

System.out.println("To Close Application");

}

}

Step 2: create child class with "extends" keyword and call the parent class

methods

extends Keyword:

extends is the keyword used to inherit the properties of other

class

ex:

package oops.concepts;

public class ChildClass extends ParentClass{

public static void main(String[] args) {

ChildClass cc= new ChildClass();

cc.login();

cc.tearDown();

}

}

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method overriding:

when same method having in Parent class as well as in childclass is

called method overriding

using super keyword we can call parent class method into childclass

syntax:

super.methodname(); //in childclass method we need to call

ex:

package oops.concepts;

public class ChildClass extends ParentClass{

public void login(){

System.out.println("setup program2");

}

public static void main(String[] args) {

ChildClass cc= new ChildClass();

cc.login();

cc.tearDown();

ParentClass pp= new ParentClass();

pp.login();

}

}

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Super keyword in Overriding

super keyword is used for calling the parent class

method/constructor in child class

syntax:

super.methodname()

will call the specified method of base class while super() calls

the constructor of base class

ex:

public class MyChildClass extends MyBaseClass{

public void setUp(){

System.out.println("Login with Invalid data");

super.setUp();

}

public static void main(String[] args) {

MyChildClass mcc= new MyChildClass();

mcc.setUp();

mcc.tearDown();

MyBaseClass mbc= new MyBaseClass();

mbc.setUp();

}

}