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JBK-1018-Serialization

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1)Write a java program which will de-Serializable from the specified file?
import ep.Emp;
import java.io.*;
class Dserp {
public static void main(String[] args) throws Exception {
 Emp eo1 = new Emp();
 FileInputStream fis = new FileInputStream("employee");
 ObjectInputStream ois = new ObjectInputStream(fis);
 Object obj = ois.readObject();
 eo1 = (Emp) obj;
System.out.println("EMP NO:" + eo1.getEmpno());
System.out.println("EMP NAME: " + eo1.getEname());
System.out.println("EMP SALARY: " + eo1.getSal());
 ois.close(); fis.close();
}}
Output:
EMP NO: 100
EMP NAME: KVR
EMP SAL: 10000.0
2) Write a java program which will save the Serializable sub class object into
a file?
import java.io.*;
class serp {
public static void main(String[] args) throws Exception {
 Emp eo = new Emp();
eo.setEmpno(100);
 eo.setEname("KVR");
 eo.setSal(10000.00 f);
 FileOutputStream fos=new FileOutputStream("employee");
 ObjectOutputStream oos = new ObjectOutputStream(fos);
 oos.writeObject(eo);
 System.out.println("EMPLOYEE OBJECT SAVED SUCCESSFULLY");
 oos.close();
 fos.close();
}}
3) Write a java program to print fields or data members of a class?
import java.lang.reflect.Field;
class Fields {
void printFields(Class c) {
 Field f[] = c.getFields();
System.out.println("NUMBER OF FIELDS:"+ f.length);
 for (int i = 0; i < f.length; i++) {
 String fname = f[i].getName();
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 Class s = f[i].getType();
 String ftype = s.getName();
 System.out.println(ftype + " " + fname);
}}}
class FieldsDemo {
public static void main(String[] args) {
if (args.length == 0) {
 System.out.println("PLEASE PASS THE CLASS NAME");
} else {
 trv {
  Class c = Class.forName(args[0]);
 Fields fs = new Fields();
 fs.printFields(c);
 } catch (ClassNotFoundException cnfe) {
 System.out.println(args[0] + "NOT FOUND");
 }}}
4) Write a java program to obtain constructors of a class?
class ConsInfo {
public static void main(String[] args) {
if (args.length == 0) {
 System.out.println("PLEASE PASS THE CLASS NAME..!");
} else {
 try {
 Class c = Class.forName(args[0]);
 printConsts(c);
 } catch (ClassNotFoundException cnfe) {
 System.out.println(args[0] + " DOES NOT EXISTS");
static void printConsts(Class c) {
iava.lang.reflect.Constructor Cons[] = c.getConstructors();
System.out.println("NUMBER OF CONSTRUCTORS:" + Cons.length);
System.out.println("NAME OF THE CONSTRUCTOR:"+c.getName());
 for (int i = 0; i < Cons.length; i++) {
 System.out.print(c.getName() + "(");
 Class cp[] = Cons[i].getParameterTypes();
 for (int j = 0; j < cp.length; j++) {
 System.out.print(cp[j].getName() + ")");
 } System.out.println("\b" + ")");
} }}
5) Write a Java program to obtain information about the methods which are
present in a class?
import java.lang.reflect.*;
class MetInfo {
public static void main(String[] args) {
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try {
 if (args.length == 0) {
 System.out.println("PLEASE PASS THE CLASS NAME");
 } else {
 Class c = Class.forName(args[0]);
 printMethods(c);
 } } catch (ClassNotFoundException cnfe) {
 System.out.println(args[0] + " DOES NOT EXISTS");
}}
static void printMethods(Class c) {
Method m[] = c.getMethods();
System.out.println("NUMBER OF METHODS:"+ m.length);
System.out.println("NAME OF THE CLASS:"+ c.getName());
 for (int i = 0; i < m.length; i++) {
 Class c1 = m[i].getReturnType();
 String rtype = c1.getName();
 String mname = m[i].getName();
 System.out.print(rtype + " " + mname + "(");
 Class mp[] = m[i].getParameterTypes();
 for (int j = 0; j < mp.length; j++) {
 String ptype = mp[i].getName();
 System.out.print(ptype + ",");
 }System.out.println("\b" + ")");
} }}
6) Write a java program to print super class hierarchy at a current class
which is passed from command prompt?
class Hierarchy {
public static void main(String[] args) {
if (args.length == 0) {
 System.out.println("PLEASE PASS THE CLASS NAME..!");
} else {
 try {
  Class c = Class.forName(args[0]);
 printHierarchy(c);
 } catch (ClassNotFoundException cnfe) {
 System.out.println(args[0] + " DOES NOT EXISTS...");
 } }}
static void printHierarchy(Class c) {
Class c1 = c;
String cname = c1.getName();
System.out.println(cname);
 Class sc = c1.getSuperclass();
 while (sc!= null) {
 cname = sc.getName();
 System.out.println(cname);
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 c1 = sc;
 sc = c1.getSuperclass();
}}}
7) Write a java program to find name of the class and its super class name by
passing the class name at runtime?
class Ref1 {
public static void main(String[] args) {
 if (args.length == 0) {
 System.out.println("PLEASE PASS THE CLASS NAME..!");
 } else {
 try {
  Class c = Class.forName(args[0]);
  printSuperclass(c);
 } catch (ClassNotFoundException cnfe) {
  System.out.println(args[0] + " DOES NOT EXISTS...");
 } // main
static void printSuperclass(Class c) {
 String s = c.getName();
 Class sc = c.getSuperclass();
 String sn = sc.getName();
 System.out.println(sn + " IS THE SUPER CLASS OF " + s);
} // printSuperclass
8) Write a java program to print name of the current class and its super
class name?
class First {
public static void main(String[] args) {
String s = new String("HELLO");
printSuperclass(s);
static void printSuperclass(Object s) {
 Class c = s.getClass();
Class sc = c.getSuperclass();
System.out.println("NAME OF CURRENT CLASS:"+ c.getName());
System.out.println("NAME OF THE SUPER CLASS:"+ sc.getName());
}}
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