**Week 11 SESSION A**

Threads and Concurrency, Deployment, Single Responsibility Principle, I/O, Serialization

-(Ch 10) Slides Exceptions (34-35), Serialization (70-)

-Quiz 3 (More on OOP/Inheritance + Serialization

-Final Project Assignment (worth 200 points!!)

Upcoming Sessions:

**REFS:** [**http://www.tutorialspoint.com/java/java\_regular\_expressions.htm**](http://www.tutorialspoint.com/java/java_regular_expressions.htm)

Demo follows:

//Employee.java

public class Employee implements java.io.Serializable

{

public String name;

public String address;

public **transient** int SSN;

public int number;

public void mailCheck()

{

System.out.println("Mailing a check to " + name

+ " " + address);

}

}

// SerializeDemo.java

import java.io.\*;

public class SerializeDemo

{

public static void main(String [] args)

{

Employee e = new Employee();

e.name = "James Papdemas";

e.address = "2130 n Western";

e.SSN = 11122333;

e.number = 100;

try

{

FileOutputStream fileOut =

new FileOutputStream("employee.ser");

ObjectOutputStream out = new ObjectOutputStream(fileOut);

out.writeObject(e);

out.close();

fileOut.close();

System.out.printf("Serialized data is saved as employee.ser");

}catch(IOException i)

{

i.printStackTrace();

}

}

}

// DeserializeDemo.java

import java.io.FileInputStream;

import java.io.IOException;

import java.io.ObjectInputStream;

//import java.io.\*;

public class DeserializeDemo

{

public static void main(String [] args)

{

Employee e = null;

try

{

FileInputStream fileIn = new FileInputStream("employee.ser");

ObjectInputStream in = new ObjectInputStream(fileIn);

e = (Employee) in.readObject();

in.close();

fileIn.close();

}catch(IOException i)

{

i.printStackTrace();

return;

}catch(ClassNotFoundException c)

{

System.out.println("Employee class not found");

c.printStackTrace();

return;

}

System.out.println("Deserialized Employee...");

System.out.println("Name: " + e.name);

System.out.println("Address: " + e.address);

System.out.println("SSN: " + e.SSN);

System.out.println("Number: " + e.number);

} }