

Databases TP 1		http://www.learnadb.com/tp	
Objectives	1. Install Java Development Kit (JDK) + Configure Path Variable. 2. Compiling and Running Java Hello World ! using Eclipse and CMD 3. CSV Format 4. Storing Data into a CSV file using Java		
Practical Work	Part 1: Java Development Kit(JDK) is a set of tools provided by Oracle to Compile and Execute Java Code. Download the Java Development Kit (JDK) at : http://www.learnadb.com/jdk To configure the Path variable with the JDK: Right Click on: My Computer → Advanced System Settings → Environment Variables → System Variables → Select Path → Click Edit At the end, add : ;C:\Program Files\Java\jdk1.7.0\bin <i>[Depends on your Installation of the JDK]</i> Part 2: 1. Open Eclipse (IDE) : 2. Create a new project named : ABC <i>File →Project →Java Project → Next</i> <i>Project Name : ABC → Finish</i> 3. Create a new class <i>Right Click on ABC Project [Package Explorer] → New → Class → Name : Hello → Finish</i> 4. Type in the following code import java.util.*; public class Hello{ public static void main(String [] args){ try{ System.out.print("Type your name \n:"); Scanner s=new Scanner(System.in); String name=s.nextLine(); System.out.println("Welcome "+name+" !"); }catch(Exception e){ e.printStackTrace(); } } } To compile & execute your code, click on the green button  To compile your code using the CMD: 1. Open the CMD 2. cd C:\workspace_folder_of_your_project\src 3. Then : javac Hello.java 4. To run your code, use : java Hello Part 3: Comma Separated Values(CSV) is a special format for storing data with a text file. Every line has values which are separated using commas (,) Ex: <i>Imed, Bouchrika, Souk-Ahras ,imed@imed.ws,0374547</i> Part 4: Type and run the following code for Hello.java import java.util.*; import java.io.*; public class Hello{ public static void main(String [] args){ try{ for (;;){ System.out.print("Type your name \n:"); Scanner s=new Scanner(System.in); String name=s.nextLine(); System.out.print("Type your email \n:"); String email=s.nextLine(); System.out.print("Type your phone \n:"); String phone=s.nextLine(); String line=name+","+email+","+phone; FileWriter fs = new FileWriter("phonebook.csv",true); BufferedWriter out = new BufferedWriter(fs); out.write(line+"\n"); out.flush(); fs.close(); System.out.println("Record is inserted for : "+name); } }catch(Exception e){ e.printStackTrace(); } } }		
	Homework	Extend the code for Part 4 to: 1. Add the Last name into the CSV file. 2. Add the City of the person. 3. If the typed name of the person is bye then Break from the loop. 4. Add restriction : No Empty emails 5. Add restriction : Email should contain @	
Questions	Answer the following Questions: 1. Why we put true at : FileWriter("phonebook.csv",true); 2. Explain the use of : try – catch 3. How to write infinite loop using while 4. What's the difference between : data and database.		
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