



Education and Research Department

Assignments for **Java Programming Part 1**

September 2009

Document No.	Authorized By	Ver. Revision	Signature / Date
ER/CORP/CRS/ERJEML 100/004	Srikantan Moorthy	Ver. 1.0	September-2009

COPYRIGHT NOTICE

All ideas and information contained in this document are the intellectual property of Education and Research Department, Infosys Technologies Limited. This document is not for general distribution and is meant for use only for the person they are specifically issued to. This document shall not be loaned to anyone, within or outside Infosys, including its customers. Copying or unauthorized distribution of this document, in any form or means including electronic, mechanical, photocopying or otherwise is illegal.

Education and Research Department
Infosys Technologies Limited
Electronic City
Hosur Road
Bangalore - 561 229, India.

Tel: 91 80 852 0261-270

Fax: 91 80 852 0362

www.infosys.com

<mailto:E&R@infosys.com>

Document Revision History

Ver. Revision	Date	Author(s)	Reviewer(s)	Description
1.0	Sep-2009	Avinash Pratap Singh and Deepak Khandelwal	Bhaskar Ranaware	Baseline

CONFIDENTIAL

Contents

<i>Assignments for Java Programming Part 1-</i>	
Assignment 1: Accepting the Data from Command Line	1
Assignment 2: Understanding Inheritance	1
Assignment 3: Understanding static method and instance method	1
Assignment 4: Understanding Scanner Class	1
Assignment 5: Understanding String and Arrays	2
Assignment 6: Understanding the Abstract class	2
Assignment 7: Understanding Interfaces	2
Assignment 8: Understanding Exception	2
Assignment 9: Understanding Packages	3

Assignments for Java Programming Part 1

Assignment 1: Accepting the Data from Command Line

Objective: To understand how to send input to java program at runtime from command line.

Problem Description: Write the Java class **CommandArg** to accept the two numbers through command line. Convert the numbers to integer type, perform the addition and print the result on the screen. (Hint : Use Wrapper classes).

Assignment 2: Understanding Inheritance

Objective: To demonstrate use of Inheritance in java.

Problem Description: Create a class **MySuper** in a package **MySuperpack**. Create another class **MySub** in another package **MySubPackage**. **MySub** overrides a method **add()** define in **MySuper**. **MySub** should call **MySuper**'s version of **add()** and also the overridden version. (Hint :Use **super**)

Assignment 3: Understanding static method and instance method

Objective: Understanding different method types in a class.

Problem Description: Explore **System** and **Math** class of **java.lang** package and use their respective static methods.

Assignment 4: Understanding Scanner Class

Objective: Understanding **Scanner** class.

Problem Description: Write a program to accept the username and password from the user and validate it. To accept the data from user use **Scanner** class in java.

Assignment 5: Understanding String and Arrays

Objective: Introducing the concept of String and array in Java.

Problem Description: Write a java program to accept a String from command line. Breakup the above String into a char Array and print them one by one.

Assignment 6: Understanding the Abstract class

Objective: Understanding Abstract Class.

Problem Description: Write a class named Book which is an abstract class which contains two methods. First method is being used to assign the respective price to different books and it is implemented there. Second method name is total() which is used to calculate the total bill.

In subclass Calculate, method total() is implemented and it calculate the total price of the books.

Assignment 7: Understanding Interfaces

Objective: Understanding Interface.

Problem Description: Write an interface name Car which contains method named move(). Write two Classes named BMW and Maruti respectively and implement this interface.

Assignment 8: Understanding Exception

Objective: Understanding Exception.

Problem Description: Create your own exception class. Write a constructor for this class that takes a String argument and stores it. Write a method that prints out the stored String. Use try-catch to practice the exception created by your class.

Assignment 9: Understanding Packages

Objective: Understand use of packages.

Problem Description: Write a class name Employee in package com.infy.demo .This class contains a method display() which displays Employee detail like Name,Emp_Id,Organozation,salary.

Write another class name Test class in com.infy.packagedemo that contains main method.

Create the object of Employee class in Test class and call display() method.

CONFIDENTIAL