

Java Basics

Training Assignment

Document Code	25e-BM/HR/HDCV/FSOFT
Version	1.1
Effective Date	20/05/2019

Issue/Revision: x/y

RECORD OF CHANGES

No	Effective Date	Change Description	Reason	Reviewer	Approver
1	20/May/2020	Createw a new assignment	Create new	DieuNT1	VinhNV

Contents

Ja	ava OOP(I)	4
	Objective	
	Business needs	
	Working requirements	
	Product architecture	
	Technologies	
	Stored Data	
	Exercise 1:	
	Exercise 2:	
	Exercise 3:	5
	Exercise 4:	5
	Evercise 5:	5



CODE: Assignment01_Opt1

Issue/Revision: x/y

TYPE: Long LOC: N/A

DURATION: 90 MINUTES

Java OOP(I)

Objective

 Java Class and Objects, Java Methods, Java Constructor, Java Strings, Java Access Modifiers, Java this keyword, Java final keyword, Java Recursion, Java instanceof Operator

Business needs

- TBD

Working requirements

- Working environment: Eclipse IDE.
- Delivery: Source code, deployment and testing, reviewing evident packaged in a compress archive.

Product architecture

- N/A

Technologies

The product implements one or more technology:

- Java basics
- Java OOP (I)

Stored Data

- N/A

Exercise 1:

Create a class named 'Student' with String variable 'name' and integer variable 'roll_no'. Assign the value of roll_no as '2' and that of name as "John" by creating an object of the class Student.

Issue/Revision: x/y

Exercise 2:

Write a program to print the area of a rectangle by creating a class named 'Area' taking the values of its length and breadth as parameters of its constructor and having a method named 'returnArea' which returns the area of the rectangle. Length and breadth of rectangle are entered through keyboard.

Exercise 3:

Write a program that would print the information (name, year of joining, salary, address) of three employees by creating a class named 'Employee'. The output should be as follows:

Name	Year of joining	Address
Robert	1994	64C- WallsStreat
Sam	2000	68D- WallsStreat
John	1999	26B- WallsStreat

Exercise 4:

Write a program by creating an 'Employee' class having the following methods and print the final salary.

- 1 'getInfo()' which takes the salary, number of hours of work per day of employee as parameter
- 2 'AddSal()' which adds \$10 to salary of the employee if it is less than \$500.
- 3 'AddWork()' which adds \$5 to salary of employee if the number of hours of work per day is more than 6 hours.

Exercise 5:

Create a class called 'Matrix' containing constructor that initializes the number of rows and number of columns of a new Matrix object. The Matrix class has the following information:

- 1 number of rows of matrix
- 2 number of columns of matrix
- 3 elements of matrix in the form of 2D array

-- THE END --