

Java Basics

Training Assignments

Document Code	25e-BM/HR/HDCV/FSOFT	
Version	1.1	
Effective Date	20/11/2012	

RECORD OF CHANGES

No	Effective Date	Change Description	Reason	Reviewer	Approver
1	01/Oct/2018	Create new	Draft	DieuNT1	VinhNV
2	:	Fsoft template	Update		VinhNV

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CODE: JAVA.M.A101

TYPE: SHORT

LOC: 70

DURATION: 30 MINUTES

Day 1. Assignment 1: Basics OOP

Objective:

» Understand basic concept about OOP

Assignment Specifications:

Create class **SavingsAccount**, your class must have the following features:

Instance variables:

- » annualInterestRate to store the annual interest rate for all account holders.
- » savingsBalance indicating the amount the saver currently has ondeposit.

Constructor:

- » public SavingsAccount(): A default constructor, it should initialize the attributes to 0, 0)
- » public public **SavingsAccount**(double intRate, double savBal): A constructor with parameters, it creates the SavingsAccount object by setting the two fields to the passed values.

Instance methods:

- » Getter/Setter Methods: are used to get/set the value.
- » Provide method calculateMonthlyInterest to calculate the monthly interest by multiplying the savingsBalance by annualInterestRate divided by 12 this interest should be added to savingsBalance.

Write a program to test class **SavingsAccount**. Instantiate two **savingsAccount** objects, saver1 and saver2, with balances of \$2000.00 and \$3000.00, respectively. Set annualInterestRate to 4%, then calculate the monthly interest and print the new balances for both savers.

Then set the annualInterestRate to 5%, calculate the next month's interest and print the new balances for both savers.

Problem Descriptions:

» Write a java console program to resolve this assignment

Guidelines:

- » Create a project named Java.M.A101, create package fa.training.entities that contains SavingsAccount class.
- » Create a new package named *fa.training.main* contains SavingsAccountTest class.