Java Basics

Training Assignments

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RECORD OF CHANGES

No	Effective Date	Change Description	Reason	Reviewer	Approver
1	01/Oct/2018	Create new	Draft	DieuNT1	VinhNV
2	01/Jun/2019	Fsoft template	Update	DieuNT1	VinhNV

Contents

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.