Assignment 4

Topic: Array of objects, static, nested class, command line argument

Sl. No.	Question
1.	Define a class Employee with the following members:
	Data members: private String empName
	private String <i>empNo</i>
	private int <i>dependentCnt</i>
	Methods: Employee (String name, String eno, intdepcnt): constructor
	void showEmpDetails():displaysempNoandempName
	intdepCount(): returns dependentCnt
	Write a separate class called $EmpTest$ with a main method that define an array of n
	employees where the value of n will be inputted from the user. Read and store the
	information of all n employees. Display the details of the employees with more than two
	dependents.
2.	Create a class Account having data members accNo, balance, timePeriod and intInYears(as
	static and initialize with 7.5%). The class should also contain the following methods:
	• float <i>calculateInterst()</i> which calculates and returns the interest amount.
	• voidshowAccDetails() which displays account number, balance and calculated
	interest amount.
	• staticvoid <i>changeIntRate</i> (float <i>newRate</i>) which changes the interest rate to <i>newRate</i> .
	Create an array of object of the class <i>Account</i> . Store the details of each object through the
	parameterized constructor. Display all the account details by calling the method
	showAccDetails().Change the interest rate to a new one by calling the method
3.	changeIntRate(). Finally display the account details after the change in interest rate.
	Create a class <i>Student</i> having data members <i>name</i> , <i>roll</i> and <i>address</i> . Note that <i>address</i> is an
	object of inner class <i>Address</i> having data members city and pin. Create some student class objects. Read, store (using constructor) and display their information. While creating the
	objects your program should display a message "Creating student number n" from the
	constructor. You can get the value of n by using a static member of Student class which is
	initialized to 0.
4.	Write a program that will take two integer numbers from the command prompt and find
	their GCD and LCM. If the user does not provide exactly two numbers of arguments then
	the program should display error message.
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