BSc Information Technology

Object Oriented Programming

Assessment no. 1

Date: 12th March 2012

Due Date: 26th March 2012

Duration: 2 weeks

Create a new project in JCreator and name it using your own name e.g. firstname_lastname_Ass1. This project will contain only one class named “BankAccount” which you must create. Additionally to the main class.

Project Specification:

1. The BankAccount class will have
   - 5 attributes of any bank account which are (name - String-, id - int-, amount - float-, type - String-)
   - Two constructors (default, overloaded) which initialize the attributes.
   - 4 methods (deposit, withdraw, transfer, showData)
   - Getter methods (set & get) for all attributes.

2. The deposit method with the following signature:
   
   public float deposit(float value) ...
   
   Deposit method adds value money to the amount of account and returns the new amount.

3. The withdraw method with the following signature:
   
   public float withdraw(float value) ...
   
   Withdraw method subtracts value from amount and returns the new amount.

4. The transfer method with the following signature:
   
   public boolean Transfer(BankAccount acc, float value) ...
   
   Transfer method withdraws value from the amount of current account and deposits it into account acc and returns true if done and false if not.
Extra Information:

- You should insert comments to your code to explain what each method does.
- Correct Java coding conventions will gain extra marks.
- Method and variables names should be exactly as described in this document.
- You should develop this application in JCreator and test it thoroughly before submitting.
- You may be required to explain your code to the lecturer upon submission of the project.
- Please upload to Moodle on or before Monday 26th March 2012 at 23.55hrs– please “zip” your project and name it - firstname_lastname_ca1 (You will be unable to upload your project after the expiry date above).
- In the interests of fairness, late submissions will incur a penalty.