

Web Database

Assignment: 1

Design a class called "**DOB**" with the following functionalities:

- [p]day
- [p]month
- [p]year
- +bool set(int d,int m,int y)//returns true if a valid date, false otherwise

Design a static class called "**IDGENERATOR**" with the following functionalities:

- static int serial_no
- +String generate()//this method will automatically generates an ID for an account the format will be "YYYY-MM-SSSSS".

example: if the serial number is 1 and date is september,2012 the auto gen ID will be "2012-09-00001".
if the serial number is 102 and date is januray,2013 the auto gen ID will be "2012-09-00102".

- *** please reset the serial no to 1 if the month is changed
- *** assume other variable if needed (you must need another one)

Help:

Use [DateTime](#) class

Use [Now](#) to get the current datetime from the system.

Design an abstract class called "**account**" with the following functionalities:

- +parameterized constructor
- + [p] [read only]name
- + [p] [read only]ID(auto generated)
- + [p] [read only]DOB (do not use system object)
- + [p] [read only]nominee
- + [p] [read only] [read only]double balance
- + abstract bool deposit(double amount)//if the amount can be successfully deposited to the balance return true, else false
- + abstract bool withdraw(double amount)//if the amount can be successfully withdraw from the balance return true, else false
- +void printAccount()//prints all the account info

Design a class called "**Debit**"(deposited money in bank) from "**Account**" with the following functionalities:

- +parameterized constructor
- +_bool deposit(double amount)//if the amount can be successfully deposited to the balance return true, else false
- +_bool withdraw(double amount)//if the amount can be successfully withdraw from the balance return true, else false
- +void printAccount()//prints all the account info
- ***debit account's max balance is 100000 and daily transaction limit is 20000

Design a class called "**Credit**"(withdraw money from bank) from "**Account**" with the following functionalities: //

+parameterized constructor

+_bool deposit(double amount)//if the amount can be successfully deposited to the balance return true, else false

+_bool withdraw(double amount)//if the amount can be successfully withdraw from the balance return true, else false

+void printAccount();//prints all the account info

***Credit account's min balance is -100000 and no upper limit, daily Cash withdraw limit is 20000

Design a class called "**Savings**" from "**Account**" with the following functionalities:

+parameterized constructor

+_bool deposit(double amount)//if the amount can be successfully deposited to the balance return true, else false

+_bool withdraw(double amount)//if the amount can be successfully withdraw from the balance return true, else false

+void printAccount();//prints all the account info

***no limit

Design a class called "**bank**" with the following functionalities:

-array of account of size 1000

+void create_account();//this method will take care of the user input for account creation

+void deposit(String ID, amount)//this method will take care of the user input for deposit an amount to a specific account

***please generate error msg is account cannot be found or other

-void withdraw(String ID,ammount)//this method will take care of the user input for withdraw an amount from a specific account

***please generate error msg is account cannot be found or other

-void print (String ID)//prints an specific account details

You may need several extra fields for your solution.

You may can any type of change if necessary.

Deadline:

Email: bijon_sust@yahoo.com

Subject: WDB_Section_Id

Deadline: 2/4/2017

Instructions:

- **First 10 students (who send email) will get bonus 2 marks.**
- **Copying assignment will carry -10 marks for all submission.**
- **All other students who can solve the assignment will get 1 mark bonus.**