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package account;

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public class Account\_Object {

////// Attributes

private int id;

private String name;

private double balance;

private double annualInterestRate;

private String dateCreated;

private int transactions;

private static int numberOfAccounts; //Static class variable

Account\_Object(){

id = 0;

name = "default";

balance = 0;

annualInterestRate = 0;

numberOfAccounts = 1;

transactions = 0;

}// Default no Argument Constructor

Account\_Object(int i,String n,double b, double aIR){

id = i;

name = n;

balance = b;

annualInterestRate = aIR;

}// Account Constructor

//////// Accessors

public int getid(){

return id;

}//getid

public String getname(){

return name;

}//getname

public double getbalance(){

return balance;

}//getbalance

public double getannualInterestRate(){

return annualInterestRate;

}//annualInterestRate

public String getdateCreated(){

return dateCreated;

}//dateCreated

public int gettransactions(){

return transactions;

}//get transactions

public int getnumberOfAccounts(){

return numberOfAccounts;

}//getnumberOfAccounts

//////// Mutators

public void setid(int newid){

id = newid;

}//setid

public void setname(String newName){

name = newName;

}//setName

public void setbalance(double newbalance){

balance = newbalance;

}//setBalance

public void setannualInterestRate(double newannualInterestRate){

annualInterestRate = newannualInterestRate;

}//setannualInterestRate

//////// Methods

public void withdraw(double amount){

balance -= amount; // subtracting amount from account

System.out.println("Withdrawn: " + amount ); // Echo

System.out.println("Current Balance: " + balance ); // Echo

transactions++;// Accumulator for transactions

}//withdraw

public void deposit(double depositAmount){

balance += depositAmount; // adding a new amount to the account balance

System.out.println("You have deposited: " + depositAmount); //Echo

System.out.println("New Balance: " + balance); // Echo

transactions++; // Accumulator for transactions

}//deposit

public void transferFunds(Account\_Object transferAccount, double transferAmount){ // calling the transfer account as an object which will be transfered with the object data type

transferAccount.withdraw(transferAmount); // Transfering from the selected account

deposit(transferAmount);// depositing into the calling object which called the transferFunds

}//transferFunds

public void displayAccount(){

System.out.println("===================================================================");

System.out.println(" Acount: " + id); // displays the id number of the account

System.out.println("===================================================================");

System.out.println(" Account Name: " + name); // displays the name of the account

System.out.println(" Date Account Created: " + dateCreated); // displays date created

System.out.println(" Number of Active Accounts: " + numberOfAccounts); // displays the number of opened accounts

System.out.println("Account Interest Rate (Annual): " + annualInterestRate); // displays the annual interest rate

System.out.println(" Account Balance: " + balance) ; // displays the balance

System.out.println(" Transactions:" + transactions); // Displays number of Transactions in the account

System.out.println("===================================================================");// fancy high-tech closing border

}//displayAccount

}//AccountObject