Assignment1(b) Loan Calculator

**package** stack;

**import** java.util.Scanner;

**class** Pair {

String name;

**long** amount;

}

**class** Source {

**private** String userName;

**private** **int** taxValue;

**private** **int** netPrice; // price of vehicle

**private** **int** time; // Duration of loan

Source(String name, **int** n, **int** price, **int** time) {

**this**.userName = name;

netPrice = price;

**this**.time = time;

taxValue = tax(n);

}

**private** **int** tax(**int** n) {

**int** roi;

**if** (n == 0)

roi = (**this**.netPrice < 5000000) ? 20 : 15;

**else** **if** (n == 1)

roi = (**this**.netPrice < 5000000) ? 15 : 10;

**else**

roi = -1;

**return** roi;

}

**public** Pair amount() {

Pair p = **new** Pair();

p.name = **this**.userName;

**if** (**this**.taxValue == -1) {

p.amount = **this**.taxValue;

} **else** {

**int** interest = (**this**.netPrice \* **this**.taxValue \* **this**.time) / 100;

p.amount = **this**.netPrice+interest;

}

**return** p;

}

}

**public** **class** Income {

**public** **static** **void** main(String[] args) {

Scanner in = **new** Scanner(System.***in***);

System.***out***.print("Enter No of users : ");

**int** n = in.nextInt();

Pair users[] = **new** Pair[n];

**int** i = 0;

**while** (n-- > 0) {

System.***out***.println("User Name : ");

String name = in.next();

System.***out***.println("Vehicle type 0->Car / 1->Bike : ");

**int** code = in.nextInt();

System.***out***.println("Net Price of your Vehicle");

**int** price = in.nextInt();

System.***out***.println("Loan period : ");

**int** period = in.nextInt();

Source s = **new** Source(name, code, price, period);

users[i] = s.amount();

**if**(n > 0) System.***out***.println("Enter Details of New User");

i++;

}

**for**(Pair item : users) {

System.***out***.println("UserName = "+item.name + " and total amount apayable by this user is = "+item.amount);

}

in.close();

}

}