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\* Class:Person Ex13.4 Pg.??? Author: Yin Linhai

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\* A bunch of classes which implement person, and a tester for those classes

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\* Course:Computer Science 201Teacher:Mr Blakey

\* School:Sir Winston Churchill High School, Calgary, Alberta, Canada

\* Language: Java SE 7.0Target Operating System: Java Virtual Machine

\* System:Intel Celeron 3GHz running under Windows 7 IDE: Eclipse 4.2

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**Person interface**

**package** people;

**public** **interface** Person {

**public** **void** setName(String x);

**public** **void** setBirth(**int** x);

**public** String getName();

**public** **int** getBirth();

}

**Instructor class**

**package** people;

**public** **class** Instructor **implements** Person {

**public** Instructor(**int** birth, String name, **double** salary) {

setName(name);

setBirth(birth);

setSalary(salary);

}

@Override

**public** **void** setName(String x) {

name = x;

}

@Override

**public** **void** setBirth(**int** x) {

birth = x;

}

**public** **void** setSalary(**double** x) {

salary = x;

}

@Override

**public** String getName() {

**return** name;

}

@Override

**public** **int** getBirth() {

**return** birth;

}

**public** **double** getSalary() {

**return** salary;

}

**int** birth;

String name;

**double** salary;

}

**Student Class**

**package** people;

**public** **class** Student **implements** Person {

**public** Student(**int** birth, String name, String majors) {

setName(name);

setBirth(birth);

major = majors;

}

@Override

**public** **void** setName(String x) {

name = x;

}

@Override

**public** **void** setBirth(**int** x) {

birth=x;

}

@Override

**public** String getName() {

// **TODO** Auto-generated method stub

**return** name;

}

@Override

**public** **int** getBirth() {

// **TODO** Auto-generated method stub

**return** birth;

}

**public** **void** setMajor(String x) {

major = x;

}

**public** String getMajor() {

**return** major;

}

**public** **int** birth;

**public** String name;

**public** String major;

}

**Tester Class**

**package** people;

**import** java.util.Scanner;

**public** **class** Test {

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

//create bob and dave

Student bob = **new** Student(1997, "Bob", "Computer Science");

Instructor dave = **new** Instructor(1976, "Dave", 5000);

//print bob's info

System.*out*.println(bob.getBirth());

System.*out*.println(bob.getName());

System.*out*.println(bob.getMajor());

//print dave's info

System.*out*.println(dave.getBirth());

System.*out*.println(dave.getName());

System.*out*.println(dave.getSalary());

//change bob

bob.setBirth(1987);

bob.setMajor("Medicine");

bob.setName("Sam");

//change dave

dave.setBirth(1959);

dave.setName("Hal");

dave.setSalary(10000);

//print bob's info

System.*out*.println(bob.getBirth());

System.*out*.println(bob.getName());

System.*out*.println(bob.getMajor());

//print dave's info

System.*out*.println(dave.getBirth());

System.*out*.println(dave.getName());

System.*out*.println(dave.getSalary());

}

}

**Output**

1997

Bob

Computer Science

1976

Dave

5000.0

1987

Sam

Medicine

1959

Hal

10000.0