package school.management.system;

import java.util.ArrayList;

import java.util.List;

public class Main {

public static void main(String[] args) {

Teacher mansi = new Teacher(1,"mansi",500);

Teacher suhani = new Teacher(2,"suhani",700);

Teacher stuti = new Teacher(3,"stuti",600);

List<Teacher> teacherList = new ArrayList<>();

teacherList.add(mansi);

teacherList.add(suhani);

teacherList.add(stuti);

Student carry = new Student(1,"Carry",4);

Student harry = new Student(2,"Harry",12);

Student tanu= new Student(3,"Tanu",5);

List<Student> studentList = new ArrayList<>();

studentList.add(carry);

studentList.add(tanu);

studentList.add(harry);

School ghs = new School(teacherList,studentList);

Teacher megan = new Teacher(6,"Megan", 900);

ghs.addTeacher(megan);

carry.payFees(5000);

harry.payFees(6000);

System.out.println("GHS has earned Rs"+ ghs.getTotalMoneyEarned());

System.out.println("------Making SCHOOL PAY SALARY----");

mansi.receiveSalary(mansi.getSalary());

System.out.println("GHS has spent for salary to " + mansi.getName()

+" and now has Rs" + ghs.getTotalMoneyEarned());

stuti.receiveSalary(stuti.getSalary());

System.out.println("GHS has spent for salary to " + stuti.getName()

+" and now has Rs" + ghs.getTotalMoneyEarned());

System.out.println(harry);

suhani.receiveSalary(suhani.getSalary());

System.out.println(suhani);

}

}

package school.management.system;

import java.util.List;

public class School {

private List<Teacher> teachers;

private List<Student> students;

private static int totalMoneyEarned;

private static int totalMoneySpent;

public School(List<Teacher> teachers, List<Student> students) {

this.teachers = teachers;

this.students = students;

totalMoneyEarned=0;

totalMoneySpent=0;

}

/

public List<Teacher> getTeachers() {

return teachers;

}

public void addTeacher(Teacher teacher) {

teachers.add(teacher);

}

public List<Student> getStudents() {

return students;

}

public void addStudent(Student student) {

students.add(student);

}

public int getTotalMoneyEarned() {

return totalMoneyEarned;

}

public static void updateTotalMoneyEarned(int MoneyEarned) {

totalMoneyEarned += MoneyEarned;

}

public int getTotalMoneySpent() {

return totalMoneySpent;

}

public static void updateTotalMoneySpent(int moneySpent) {

totalMoneyEarned-=moneySpent;

}

}

package school.management.system;

public class Student {

private int id;

private String name;

private int grade;

private int feesPaid;

private int feesTotal;

public Student(int id, String name,int grade){

this.feesPaid=0;

this.feesTotal=30000;

this.id=id;

this.name=name;

this.grade=grade;

}

public void setGrade(int grade){

this.grade=grade;

}

public void payFees(int fees){

feesPaid+=fees;

School.updateTotalMoneyEarned(feesPaid);

}

public int getId() {

return id;

}

public String getName() {

return name;

}

public int getGrade() {

return grade;

}

public int getFeesPaid() {

return feesPaid;

}

public int getFeesTotal() {

return feesTotal;

}

public int getRemainingFees(){

return feesTotal-feesPaid;

}

@Override

public String toString() {

return "Student's name :"+name+

" Total fees paid so far Rs"+ feesPaid;

}

}

package school.management.system;

public class Teacher {

private int id;

private String name;

private int salary;

private int salaryEarned;

public Teacher(int id, String name, int salary){

this.id=id;

this.name=name;

this.salary=salary;

this.salaryEarned=0;

}

public int getId(){

return id;

}

public String getName(){

return name;

}

public int getSalary(){

return salary;

}

public void setSalary(int salary){

this.salary=salary;

}

public void receiveSalary(int salary){

salaryEarned+=salary;

School.updateTotalMoneySpent(salary);

}

@Override

public String toString() {

return "Name of the Teacher: " + name

+" Total salary earned so far Rs"

+ salaryEarned;

}

}