

Correction TP: Héritage

Person.java

```
public class Person {
    private String name;
    private String address;

    public Person(String name, String address) {
        this.name = name;
        this.address = address;
    }

    public String getAddress() {
        return address;
    }

    public void setAddress(String address) {
        this.address = address;
    }

    public String getName() {
        return name;
    }

    @Override
    public String toString() {
        return "Person [name=" + name + ", address=" + address +
    "]"
    }
}
```

Student.java

```
public class Student extends Person {

    //Les attributs:
    private String program;
    private int year;
    private double fee;

    //Constructeur avec arguments
    public Student(String name, String address,String program, int
year, double fee) {
        super(name, address);
        this.program = program;
    }
}
```

```
        this.year = year;
        this.fee = fee;
    }

    //getters et setters
    public String getProgram() {
        return program;
    }
    public void setProgram(String program) {
        this.program = program;
    }
    public int getYear() {
        return year;
    }
    public void setYear(int year) {
        this.year = year;
    }
    public double getFee() {
        return fee;
    }
    public void setFee(double fee) {
        this.fee = fee;
    }

    //to String
    @Override
    public String toString() {
        return "Student [program=" + program + ", year=" + year +
", fee=" + fee + "]";
    }
}
```

Staff.java

```
public class Staff extends Person{

    //Les attributs
    private String school;
    private double pay;

    //Constructeur avec arguments
    public Staff(String name, String adress, String school, double
pay) {
        super(name, adress);
        this.school = school;
        this.pay = pay;
    }
}
```

```
//getters et setters
public String getSchool() {
    return school;
}
public void setSchool(String school) {
    this.school = school;
}
public double getPay() {
    return pay;
}
public void setPay(double pay) {
    this.pay = pay;
}

//Méthode to String
@Override
public String toString() {
    return "Staff [school=" + school + ", pay=" + pay + "];"
}

}
```

TestClass.java

```
public class TestClass {

    public static void main(String[] args) {
        Person person = new Person("Khalid", "Rabat");

        Student etudiant = new Student("Othmane",
"Tanger","program Othmane", 2020,125.25);

        Staff staff = new Staff("Ahmed", "FES", "program
Ahmed",2005.50);

        person.setAdress("Fes");
        System.out.println(person.toString());

        System.out.println("-----");
        etudiant.setFee(102);
        System.out.println(etudiant.toString());

        System.out.println("-----");
        staff.setPay(2000);
        staff.setSchool("EloSIG");
        System.out.println(staff.toString());
    }
}
```

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