Exercice 1 – TD 4 – Correction :

Interface :

```
@WebService
public interface AddressBook {

        @WebMethod
        @WebResult(name="adresseRetournee")
        public Adresse getAddresByName(@WebParam(name="nom") String nom);

        @WebMethod
        @WebResult(name="listePersonnes")
        public ArrayList<Personne> getPersons();
}
```

Classe Impl :

```
@WebService(endpointInterface="soa.ws.tp4.AddressBook")
public class AddressBookImpl implements AddressBook{

        ArrayList<Personne> persons = new ArrayList<Personne>();

        public AddressBookImpl () {
                persons.add(new Personne("Blabla", new Adresse("Algeria", "algeria.dz")));
                persons.add(new Personne("Bla2", new Adresse("Spain", "spain.es")));
        }

        @Override
        @WebMethod
        public ArrayList<Personne> getPersons() {
                return persons;
        }

        @Override
        @WebMethod
        public Adresse getAddresByName(String nom) {
                for(int i=0; i<persons.size(); i++)
                        if(nom.equals(persons.get(i).getNom()))
                                return persons.get(i).getAddress();
                return null;
        }
}
```

Classe Personne:

```
@XmlRootElement(name="Personne")
@XmlType(propOrder={"nom", "address"})
public class Personne {

        private String nom;
        private Adresse address;

        public Personne() {

        }
```

```java
public Personne(String nom, Adresse address) {
        this.setNom(nom);
        this.setAddress(address);
    }

    @XmlElement(name="NomPersonne")
    public String getNom() {
        return nom;
    }

    public void setNom(String nom) {
        this.nom = nom;
    }

    @XmlElement(name="AdressePersonne")
    public Adresse getAddress() {
        return address;
    }

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

}
```

Classe Adresse :

```java
public class Adresse {

    private String pays;
    private String email;

    public Adresse(String pays, String email) {
        this.setPays(pays);
        this.setEmail(email);
    }

    // Getters et Setters

}
```