

Create UML diagram : Parcel Hub

+ Client
- id : int
- name : Name
- address : Address
+ Client (id : int , name : Name , address : Address)
+ getClientId() : int
+ getClientName() : Name
+ getClientAddress() : Address

+ Name
- firstName : String
- lastName : String
+ Name (firstName : String , lastName : String)
+ getName() : String

+ Address
- street : String
- city : String
- state : String
+ Address (street : String , city : String , state : String)
+ getAddress() : String

+ Parcel
- id : int
- sender : Client
- receiver : Client
- weight : double
- status : String
+ Parcel (id : int , sender : Client , receiver : Client , weight : double , status : String)
+ Parcel (id : int , senderId : int , senderName : Name , senderAddress : Address , receiverId : int , receiverName : Name , receiverAddress : Address , weight : double , status : String)
+ getParcelId() : int
+ getSender() : Client
+ getReceiver() : Client
+ getWeight() : double
+ getStatus() : String

+ Parcels
- parcels : List < Parcel >
+ Parcels()
+ addParcel (parcel : Parcel)
+ removeParcel (parcel : Parcel)
+ getParcels() : List < Parcel >

+ Clients
- clients : List < Client >
+ Clients()
+ addClient (client : Client)
+ removeClient (client : Client)
+ getClients() : List < Client >

Code

```
public class Name {
    private String firstName;
    private String lastName;

    public Name (String firstName, String LastName) {
        this.firstName = firstName;
        this.lastName = LastName;
    }
}
```

```
public String getName() {
    return firstName + " " + lastName;
}
}
```

```
public class Address {
    private String street;
    private String city;
    private String state;

    public Address (String street, String city, String state) {
        this.street = street;
        this.city = city;
        this.state = state;
    }
}
```

```
public String getAddress() {
    return street + ", " + city + ", " + state;
}
}
```

}

```
public Class Client {
```

```
    private int id;
```

```
    private Name name;
```

```
    private Address address;
```

```
    public Client (int id, Name name, Address address) {
```

```
        this.id = id;
```

```
        this.name = name;
```

```
        this.address = address;
```

```
    }
```

```
    public int getClientId() {
```

```
        return id;
```

```
    }
```

```
    public Name getClientName() {
```

```
        return name;
```

```
    }
```

```
    public Address getClientAddress() {
```

```
        return address;
```

```
    }
```

```
}
```

```
public Class Parcel {
```

```
    private int id;
```

```
    private Client sender;
```

```
    private Client receiver;
```

```
    private double weight;
```

```
    private String status;
```

```
    public Parcel (int id, Client sender, Client receiver, double weight, String status) {
```

```
        this.id = id;
```

```
        this.sender = sender;
```

```
        this.receiver = receiver;
```

```
        this.weight = weight;
```

```
        this.status = status;
```

```
    }
```

```
public Parcel ( int id , int senderId , Name senderName , Address senderAddress , int receiverId , Name receiverName ,  
Address receiverAddress , double weight , String status ) {
```

```
    this . id = id ;
```

```
    this . sender = new Client ( senderId , senderName , senderAddress ) ;
```

```
    this . receiver = new Client ( receiverId , receiverName , receiverAddress ) ;
```

```
    this . weight = weight ;
```

```
    this . status = status ;
```

```
}
```

```
public int getParcelId () {  
    return id ;
```

```
}
```

```
public Client getSender () {  
    return sender ;
```

```
}
```

```
public Client getReceiver () {  
    return receiver ;
```

```
}
```