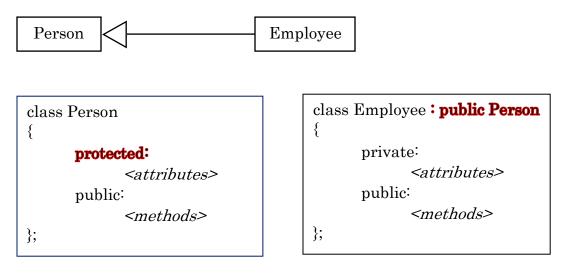
Mapping class diagram relationships to implementation

01. Inheritance



.....

02. Composition

```
Car Wheel
```

```
class Car
{
    private:
        <attributes>
        Wheel * wheels [4];
    public:
        <methods>
        void addWheels()
        {
            Wheels [0] = new Wheel();
            Wheels [1] = new Wheel();
            Wheels [2] = new Wheel();
            Wheels [3] = new Wheel();
        }
};
```

```
class Wheel
{
    private:
        <attributes>
    public:
        <methods>
};
```

03. Aggregation

```
Company 0..* Employee
```

04. Uni-directional Association

05. Bi-directional Association

```
0..*
   Customer
                                       Order
#define SIZE 10
                                               class Order
class Customer
                                                      private:
                                                      <attributes>
      private:
                                                            Customer * cus;
             <attributes>
            Order * orders[SIZE];
                                                      public:
                                                            <methods>
      public:
                                               };
             <methods>
```

.....

06.Dependancy

};

```
SalesPerson -1 0..* Product
```

```
class Product
{
    private:
        <attributes>
    public:
        <methods>
};
```