

### **Purpose:**

In this assignment, I teach the how to implement inheritance structure and encapsulate structure to our codes, In the assignment we are expected to calculate the personnel of a company. We need to split these personnels in classes after that we configure these to right hierarchy(I mean Inheritance Structure).

### **Attributes and methods of my classes:**

#### **Personnel class:**

This class is my first class that I created. I created this class and other class inherits attributes and methods from personnel class.

There are some attributes in this class because Personnels have some common attributes such as, name,surname,salary etc.

I define this attributes private and create setter getter methods to achieve their values.

Also there are three also methods,first one is calculate severancepay method I put this method in this class because this Money is common.

Second one and third one are reading and writing method.

#### **Security class:**

This class inherits from Personnel so it has Personnels public methods and attributes .

There are also some different attributes and methods.

Foodwaymoney is my attribute which was defined in security it means that security has a Daily food and Daily way Money and I calculate this.

And there is a salarycalculated method which calculates salary.

#### **Officer class:**

This class inherits from Personnel so it has Personnels public methods and attributes .

This class has three attributes, first one is ssbenefit, second one is about severance pay

third one is basesalary attributes which is 2600 tl its defined static.

There is a calculate ssbenefit method which calculate value of ssbenefit

And calculatesalary methods calculates salary.

### **Academician class:**

This class inherits from Personnel class but this class is superclass like personnel class.

There is a basesalary attributes which is 2600 tl. it defines static which means it is used with class not object.

Calculate ssbenefit(): it calculate special service benefits.

### **Faculty member Class:**

This class inherits from Academician class.

Attributes: sevpay and ssbenefit

Methods: sevpaycalculate, ssbenefitcalculate, salarycalculate

I explain this methods and attributes above classes.

### **Research Assistant Class:**

This class inherits from Academician class.

Attributes: sevpay and ssbenefit

Methods: sevpaycalculate, ssbenefitcalculate, salarycalculate

### **Employee Class:**

This class inherits from Personnel class.

I didn't define any methods or any attributes this class because I didn't find any relationship between Fulltime class and Parttime class but I create this class because of hierarchy.

### **PartTime Class:**

It inherits from Employee.

Methods:calculetesalary()

Attributes:sevpay

### **FullTime Class:**

It inherits from Employee

There is only calismagünü attributes.

It is static final attributes its value is 5.

### **Worker Class:**

It inherits from FullTime class.

Attributes: sevpay(severence pay)

Methods:calcualtesalary()

### **Chief Class:**

It inherits from FullTime class.

Attributes: sevpay(severence pay)

Methods:calcualtesalary() --- MY UML CLASS DIAGRAM---

