LAB # 08 Evaluation

Exercise:

* Create an employee class with name, address, and number as private instance variables of that class.
* Use a constructor to initialize these instance variables.
* Create a mailCheck method in employee class that prints “Mailing check to employee name and address.
* Create a toString method that returns the name, address, and number of the employee.
* Design Accessor and Mutator methods for private variables.
* Create a salary class that inherits the Employee class with an additional private instance variable as salary.
* Create a constructor to initialize the instance variables. Also make use of parent class constructor and mutator method to set the salary.
* Override the mailCheck method that prints the following.

“Within MailCheck of Salary class”

“Mailing check to Ali with salary 45000”

* Design Accessor and Mutator method for private variable
* Create a computePay method that prints” Computing salary pay for Ali”. This method should return salary after dividing it by 52.
* Initiate two salary objects, one using salary reference and other using employee reference.
* Invoke mailCheck method by using salary and employee reference both.Display a message that determines which mailCheck method has been invoked( which reference is used?).

Code:

Main:

package exercise;

public class Exercise {

    public static void main(String[] args) {

        Employee e1 = new Salary("Abdullah Sadiq", "xyz",000000,86000);

        Salary s1 = new Salary("Saad","bcbcbc",99373,110000);

        System.out.println("Involving MailCheck method by Employee Class Reference");

        e1.mailCheck();

        System.out.println("Involving MailCheck method by Salary Class Reference");

        s1.mailCheck();

        e1.toString();

        s1.toString();

        double pay = s1.computePay();

        System.out.println("The computed pay is " + pay);

    }

}

Employee (Parent):

package exercise;

public class Employee {

    private String name, address;

    private int number;

    public Employee(String name, String address, int number){

     this.name = name;

     this.address = address;

     this.number = number;

    }

    public void mailCheck(){

        System.out.println("Mailing Check to " + name + " at " + address);

    }

    public String toString(){

        return name + ", " + address + ", " + number;

    }

    public String getName(){

        return name;

    }

    public void setName(String name){

        this.name = name;

    }

    public String getAddress(){

        return address;

    }

    public void setAddress(String address){

        this.address = address;

    }

    public int getNumber(){

        return number;

    }

    public void setName(int number){

        this.number = number;

    }

}

Salary (Child):

package exercise;

public class Salary extends Employee{

    private double salary;

    public double getSalary(){

        return salary;

    }

    public void setSalary(){

        this.salary = salary;

    }

    public Salary(String name, String address, int number, double salary){

        super (name, address, number);

        this.salary = salary;

    }

    public void mailCheck(){

        System.out.println("MailCheck of Salary class");

        System.out.println("Mailing check to "+super.getName() + " with salary " + getSalary());

    }

    public double computePay(){

        System.out.println("Computing salary pay for "+ super.getName());

        return salary / 52;

    }

}

Output:

