

Exercise 1:

Class Employee:

```
public class Employee {
    private String firstName;
    private String lastName;
    private double monthlySalary;

    public String getFirstName() {
        return firstName;
    }

    public void setFirstName(String fname) {
        firstName = fname;
    }

    public String getLastName() {
        return lastName;
    }
    public void setLastName(String lname) {
        lastName = lname;
    }

    public double getMonthlySalary() {
        return monthlySalary;
    }

    public void setMonthlySalary(double m) {
        if(m < 0){
            monthlySalary =0;
        }
        else monthlySalary = m;
    }
}
```

Class EmployeeTest:

```
import java.util.Scanner;

public class EmployeeTest {
    public static void main(String[] args){

        Scanner S = new Scanner(System.in);
        System.out.println("Enter the first name:");
        String fname = S.next();
        System.out.println("Enter the last name: ");
        String lname = S.next();
        System.out.println("Enter the Salary: ");
        double sal = S.nextDouble();
        Employee e =new Employee();
        e.setFirstName(fname);
        e.setLastName(lname);
        e.setMonthlySalary(sal);

        System.out.println("the yearly salary of "+e.getFirstName()+" "
            +e.getLastName()+" :");
        System.out.println(e.getMonthlySalary()*12);

        double newsalary= e.getMonthlySalary()*0.1+e.getMonthlySalary();
        e.setMonthlySalary(newsalary);
        System.out.println("the new yearly salary of "+
            e.getFirstName()+" "+e.getLastName()+" :");
        System.out.println(e.getMonthlySalary()*12);

    }
}
```

Exercise 2:

```
public class Invoice {
    private String partNo, partDes;
    private int quantity;
    private double price;

    public String getPartNo() {
        return partNo;
    }
    public void setPartNo(String partNo) {
        this.partNo = partNo;
    }
    public String getPartDes() {
        return partDes;
    }
    public void setPartDes(String partDes) {
        this.partDes = partDes;
    }
    public int getQuantity() {
        return quantity;
    }
    public void setQuantity(int quantity) {
        if(quantity < 0)
            this.quantity = 0;
        else
            this.quantity = quantity;
    }
    public double getPrice() {
        return price;
    }
    public void setPrice(double price) {
        if(price < 0.0)
            this.price = 0.0;
        else
            this.price = price;
    }
    public double getInvoiceAmount(){
        return quantity*price;
    }
}
```

Main Class:

```
import java.util.Scanner;

public class InvoiceTest {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        int c = 0;
        do{
            System.out.println("1) calculate a new invoice");
            System.out.println("2) exit");
            System.out.println("your choice:");
            switch(c)
            {
                case 1:
                    System.out.println("Enter part number, description, quantity, and price
                    per item:");
                    Invoice invoice = new Invoice();
                    Invoice.setPartNo(input.next());
                    Invoice.setPartDes(input.next());
                    Invoice.setQuantity(input.nextInt());
                    Invoice.setPrice(input.nextDouble());
                    System.out.println("Invoice amount = "+invoice.getInvoiceAmount()+"
                    S.R");
                    break;
                case 2:
                    System.out.println("Bye");
                    break;
                default:
                    System.out.println("Wrong choice");
            }
        }while(c != 2);
    }
}
```
