

```

import java.util.Date;

public class App {
    public static void main(String[] args) throws Exception {
        Person person = new Person("Somsak", "1 Chalongkrung Road, Ladkrabang, BKK, 10520",
            "012-345-6789", "somsak@mymail.com");
        person.renderPersonT();
        person.renderPerson();
        System.out.println(person);
        System.out.println();

        Student student = new Student("Somsak", "1 Chalongkrung Road, Ladkrabang, BKK, 10520",
            "012-345-6789", "somsak@mymail.com",1);
        student.renderStudent();
        student.renderPerson();
        System.out.println(student);
        System.out.println();

        Employee employee = new Employee("Somsak", "1 Chalongkrung Road, Ladkrabang, BKK, 10520",
            "012-345-6789", "somsak@mymail.com", "office",25000,new Date());
        employee.renderEmployee();
        employee.renderPerson();
        System.out.println(employee);
        System.out.println();

        Faculty faculty = new Faculty("Somsak", "1 Chalongkrung Road, Ladkrabang, BKK, 10520"
            , "012-345-6789", "somsak@mymail.com", "office",25000,new Date(), 9,"rank");
        faculty.renderFaculty();
        faculty.renderPerson();
        System.out.println(faculty);
        System.out.println();

        Staff staff = new Staff("Somsak", "1 Chalongkrung Road, Ladkrabang, BKK, 10520",
            "012-345-6789", "somsak@mymail.com", "office",25000,new Date(),"title");
        staff.renderStaff();
        staff.renderPerson();
        System.out.println(staff);
        System.out.println();
    }
}

```

```

class Person {
    private String name;
    private String address;
    private String phoneNumber;
    private String emailAddress;

    public Person(String name,String address,String phoneNumber,String emailAddress){

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this.name = name;
this.address = address;
this.phoneNumber = phoneNumber;
this.emailAddress = emailAddress;
}

//setter

public void setName(String name){
    this.name = name;
}

public void setAddress(String address){
    this.address = address;
}

public void setPhoneNumber(String phoneNumber){
    this.phoneNumber = phoneNumber;
}

public void setEmailAddress(String emailAddress){
    this.emailAddress = emailAddress;
}

//getter

public String getName(){
    return name;
}

public String getAddress(){
    return address;
}

public String getPhoneNumber(){
    return phoneNumber;
}

public String getEmailAddress(){
    return emailAddress;
}

public String toString(){
    return "Person{name="+name+", "+
        "address="+address+", "+
        "phoneNumber="+phoneNumber+", "+
        "email="+emailAddress+"}\n";
}

//function
```

```

public void renderPerson(){
    System.out.println("Name: "+name);
    System.out.println("Address: "+address);
    System.out.println("Phone: "+phoneNumber);
    System.out.println("Email: "+emailAddress);
}

public void renderPersonT(){
    System.out.println("Person");
}

}

```

```
import java.util.Date;
```

```

class Employee extends Person {
    private String office;
    private double salary;
    private Date dateHired;

    public Employee(String name, String address, String phoneNumber, String emailAddress,
        String office, double salary, Date dateHired) {
        super(name, address, phoneNumber, emailAddress);
        this.office = office;
        this.salary = salary;
        this.dateHired = dateHired;
    }

    // getter
    public String getName() {
        return office;
    }

    public double getSalary() {
        return salary;
    }

    public Date getDateHired() {
        return dateHired;
    }

    public String toString(){
        return super.toString() + "Employee{office="+office+", "+
            "salary="+String.format("%.2f",salary)+"", "+
            "dateHired="+dateHired+"}\n";
    }

    //function

```

```

    public void renderEmployee(){
        System.out.println("Employee");
    }
}

```

```

class Student extends Person {
    private String status;

    public Student(String name, String address, String phoneNumber, String emailAddress,int year) {
        super(name, address, phoneNumber, emailAddress);
        this.status = new String("");
        if(year==1)this.status+=Status.FRESHMAN.getStatus();
        else if(year==2)this.status+=Status.SOPHOMORE.getStatus();
        else if(year==3)this.status+=Status.JUNIOR.getStatus();
        else if(year==4)this.status+=Status.SENIOR.getStatus();
    }

    // getter
    public String getStatus() {
        return status;
    }

    public String toString(){
        return super.toString()+"Student{status="+status+"}";
    }

    //function
    public void renderStudent(){
        System.out.println("Student");
    }
}

```

```

import java.util.Date;

```

```

class Faculty extends Employee {
    private int officeHours;
    private String rank;

    public Faculty(String name, String address, String phoneNumber, String emailAddress,
        String office, double salary, Date dateHired,int officeHours, String rank) {
        super(name, address, phoneNumber, emailAddress, office,salary,dateHired);
        this.officeHours = officeHours;
        this.rank = rank;
    }
}

```

```

// getter

public int getOfficeHours() {
    return officeHours;
}

public String getRank() {
    return rank;
}

public String toString(){
    return super.toString() + "Faculty{officeHours="+officeHours+", "+
        "rank="+rank+"}";
}

//function
public void renderFaculty(){
    System.out.println("Faculty");
}
}

import java.util.Date;

class Staff extends Employee {
    private String title;

    public Staff(String name, String address, String phoneNumber, String emailAddress,
        String office, double salary, Date dateHired,String title) {
        super(name, address, phoneNumber, emailAddress,office,salary,dateHired);
        this.title = title;
    }

    // getter

    public String getTitle() {
        return title;
    }

    public String toString(){
        return super.toString() + "Staff{title="+title+"}";
    }

    //function
    public void renderStaff(){
        System.out.println("Staff");
    }
}

```

```
enum Status {
    FRESHMAN,
    SOPHOMORE,
    JUNIOR,
    SENIOR;

    public String getStatus() {
        switch (this) {
            case FRESHMAN:
                return "FRESHMAN";
            case SOPHOMORE:
                return "SOPHOMORE";
            case JUNIOR:
                return "JUNIOR";
            case SENIOR:
                return "SENIOR";
            default:
                return "";
        }
    }
}
```