

## Selected files

### 4 printable files

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Lab 2\Question 3 Inheritance for Student and Staff\Student.java

#### Lab 2\Question 3 Inheritance for Student and Staff\Main.java

```
1
2 public class Main {
3     public static void main(String[] args) {
4         Student student1 = new Student("Duy", "123 Nguyen Anh Thu", "Computer Science",
5         2023, 5000.00);
6         Student student2 = new Student("Nam", "456 Xa lo Ha Noi", "Mathematics", 2022,
7         5500.00);
8         Staff staff1 = new Staff("Nghia", "789 Xa lo HCM", "School of Engineering",
9         60000.00);
10        Staff staff2 = new Staff("Tung", "135 Cau Sai Gon", "School of Business", 65000.00);
11
12        System.out.println("Student 1: " + student1);
13        System.out.println("Student 2: " + student2);
14        System.out.println("Staff 1: " + staff1);
15        System.out.println("Staff 2: " + staff2);
16
17        // Modifying information
18        student1.setProgram("Electrical Engineering");
19        student2.setYear(2021);
20        staff1.setPay(62000.00);
21        staff2.setSchool("School of Economics");
22
23        System.out.println("\nModified information:");
24        System.out.println("Student 1: " + student1);
25        System.out.println("Student 2: " + student2);
26        System.out.println("Staff 1: " + staff1);
27        System.out.println("Staff 2: " + staff2);
28    }
29 }
```

#### Lab 2\Question 3 Inheritance for Student and Staff\Person.java

```
1 public class Person {
2     private String name;
3     private String address;
4
5     public Person(String name, String address) {
6         this.name = name;
7         this.address = address;
8     }
9
10    public String getName() {
11        return name;
12    }
13
14    public String getAddress() {
15        return address;
16    }
17 }
```

```
18     public void setAddress(String address) {
19         this.address = address;
20     }
21
22     // public void setName(String name) {
23     //     this.name = name;
24     // }
25
26     @Override
27     public String toString() {
28         return "Person [name='" + name + "', address='" + address + "']";
29     }
30 }
31
```

### Lab 2\Question 3 Inheritance for Student and Staff\Staff.java

```
1  public class Staff extends Person {
2      private String school;
3      private double pay;
4
5      public Staff(String name, String address, String school, double pay) {
6          super(name, address);
7          this.school = school;
8          this.pay = pay;
9      }
10
11     public String getSchool() {
12         return school;
13     }
14
15     public void setSchool(String school) {
16         this.school = school;
17     }
18
19     public double getPay() {
20         return pay;
21     }
22
23     public void setPay(double pay) {
24         this.pay = pay;
25     }
26
27     @Override
28     public String toString() {
29         return "Staff " + super.toString() + ", school='" + school + "', pay=" + pay + "];
30     }
31 }
```

### Lab 2\Question 3 Inheritance for Student and Staff\Student.java

```
1  public class Student extends Person {
2      private String program;
3      private int year;
4      private double fee;
5
6      public Student(String name, String address, String program, int year, double fee) {
7          super(name, address);
```

```
8         this.program = program;
9         this.year = year;
10        this.fee = fee;
11    }
12
13    public String getProgram() {
14        return program;
15    }
16
17    public void setProgram(String program) {
18        this.program = program;
19    }
20
21    public int getYear() {
22        return year;
23    }
24
25    public void setYear(int year) {
26        this.year = year;
27    }
28
29    public double getFee() {
30        return fee;
31    }
32
33    public void setFee(double fee) {
34        this.fee = fee;
35    }
36
37    @Override
38    public String toString() {
39        return "Student " + super.toString() + ", program='" + program + "', year=" + year +
40        ", fee=" + fee + "];"
41    }
42 }
```