

Main.java

```
import java.util.ArrayList;
import java.util.Collections;

public class Main {
    public static void main(String[] args) {
        ArrayList<Person> people = new ArrayList<>();
        Employee Nursultan = new Employee("Nursultan", "Zhumagali",
"Manager", 37445.78);
        Employee Aldiyar = new Employee("Aldiyar", "Kuandyk",
"Designer", 53250.00);
        Student Vladimir = new Student("Vladimir", "Efimov", 2.1);
        Student Aitas = new Student("Aitas", "Zhakhan", 3.3);
        people.add(Aldiyar);
        people.add(Nursultan);
        people.add(Vladimir);
        people.add(Aitas);

        Collections.sort(people);
        printData(people);
    }

    public static void printData(Iterable<Person>people) {
        for (Person person : people) {
            System.out.println(person);
        }
    }
}
```

Person.java

```
public class Person implements Payable, Comparable<Person> {
    private static int idCounter = 1;
    private int id;
    private String name;
    private String surname;

    public Person() {
        this.id = idCounter++;
    }

    public Person(String name, String surname) {
        this();
        this.name = name;
        this.surname = surname;
    }
}
```

```

    public int getId() {
        return id;
    }
    public void setName(String name) {
        this.name = name;
    }
    public String getName() {
        return name;
    }

    public void setSurname(String surname) {
        this.surname = surname;
    }
    public String getSurname() {
        return surname;
    }

    public double getPaymentamount() {
        return 0.0;
    }

    public String getPosition() {
        return "Student";
    }

    public int compareTo(Person other) {
        return Double.compare(this.getPaymentamount(),
other.getPaymentamount());
    }

    public String toString() {
        return getPosition() + ": " + getId() + ". " + getName() + " "
+ getSurname();
    }
}

```

Payable.java

```

public interface Payable {
    double getPaymentamount();
}

```

Student.java

```
public class Student extends Person {
    private double gpa;

    public Student(String name, String surname, double gpa) {
        super(name, surname);
        this.gpa = gpa;
    }
    public void setGpa(double gpa) {
        this.gpa = gpa;
    }
    public double getGpa() {
        return gpa;
    }

    public double getPaymentamount() {
        if (gpa > 2.67) {
            return 36660.00;
        } else {
            return 0.0;
        }
    }

    public String toString() {
        return "Student: " + super.toString() + " earns " +
getPaymentamount() + " tenge";
    }
}
```

Employee.java

```
public class Employee extends Person {
    private String position;
    private double salary;

    public Employee(String name, String surname, String position,
double salary) {
        super(name, surname);
        this.position = position;
    }
}
```

```
        this.salary = salary;
    }
    public void setPosition(String position) {
        this.position = position;
    }
    public String getPosition() {
        return position;
    }

    public void setSalary(double salary) {
        this.salary = salary;
    }
    public double getSalary() {
        return salary;
    }

    public double getPaymentamount() {
        return getSalary();
    }

    public String toString() {
        return "Employee: " + super.toString() + " earns " +
getPaymentamount() + " tenge";
    }
}
```