public class Person {

String name;

public Person() {

this.name = "NULL";

}

public Person(String name) {

this.name = name;

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

}  
  
public class Student extends Person {

String id;

double marks;

double cgpa;

public Student() {

super();

this.id = "2022-3-60-035";

this.marks = 0.0; // Default marks

this.cgpa = 0.0; // Default cgpa

}

public Student(String name, String id, double marks, double cgpa) {

super(name);

this.id = id;

this.marks = marks;

this.cgpa = cgpa;

}

public String getId() {

return id;

}

public void setId(String id) {

this.id = id;

}

public double getMarks() {

return marks;

}

public void setMarks(double marks) {

this.marks = marks;

}

public double getCgpa() {

return cgpa;

}

public void setCgpa(double cgpa) {

this.cgpa = cgpa;

}

@Override

public String toString() {

return "Student{" + "name=" + getName() + ", id=" + id + ", marks=" + marks + ", cgpa=" + cgpa + '}';

}

}  
  
public class GraduateStudent extends Student {

double cgpa;

public GraduateStudent() {

super();

this.cgpa = 0.0; // Default cgpa

}

public GraduateStudent(String name, String id, double marks, double cgpa, double graduateCgpa) {

super(name, id, marks, cgpa);

this.cgpa = graduateCgpa;

}

public double getGraduateCgpa() {

return cgpa;

}

public void setGraduateCgpa(double cgpa) {

this.cgpa = cgpa;

}

}  
  
public class Main {

public static void main(String[] args) {

Student student = new Student("Niloy", "2022-3-60-035", 85.5, 3.6);

System.out.println(student.toString());

GraduateStudent graduateStudent = new GraduateStudent("Nizam", "2024-5-60-456", 92.0, 3.8, 4.0);

System.out.println(graduateStudent.toString());

Student polymorphicStudent = new GraduateStudent("Nahid", "2022-3-60-068", 88.0, 3.7, 3.9);

System.out.println(polymorphicStudent.toString());

}

}

