```
package programmingIIlap;
class Student {
   private String name;
   private int id;
   private double gpa;
public Student(int id, String name,
double gpa) {
    this.id = id;
    this.name = name;
    this.gpa = gpa;
}
             public String getName() { return
public int getId() { return id; }
  public double getGPA() { return
gpa; }
  public void setName(String newName)
{ this.name = newName; }
       public String toString() {
    return "Student: \n\tID: " + id
"\n\tName: " + name + "\n\tGPA: " +
 class Undergrad extends Student {
   private String year;
public Undergrad(int id, String
name, double gpa, String year) {
    super(id, name, gpa);
    this.year = year;
}
            public String getYear() {
    return year;
}
public String toString() {
    return "Undergraduate " +
super.toString() + "\n\tYear: " + year;
}
class Graduate extends Student {
   private String thesisTitle;
 public Graduate(int id, String
name, double gpa, String thesisTitle) {
    super(id, name, gpa);
    this.thesisTitle = thesisTitle;
}
             public String getThesisTitle() {
    return thesisTitle;
public void setThesisTitle(String
newThesisTitle) {
   this.thesisTitle =
newThesisTitle;
 public String toString() {
    return "Graduate " +
super.toString() + "\n\tThesis: " +
thesisTitle;
}
// Test class should be public because
if contains the main method
public class TestStudents {
    public static void main(String[]
    args) {
        Student s1 = new Student(97000,
    "Sameer", 3.51);
        Student s2 = new Student(98000,
    3.22);
        Undergrad u1 = new
Undergrad(99000, "Shahid", 2.91,
        "Junior");
        Graduate g1 = new
Graduate(200000, "Mubin", 3.57,
    "Algorithms & Complexity");
                         System.out.println(s1);
System.out.println(s2);
System.out.println(u1);
System.out.println(g1);
```

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ID Number: 2240007312

```
■ Javadoc © Declaration ■ Console ×

sterminated > TestStudents [Java Application] C\Users\malak\p2\poo\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_22.0.2.v20240802-1626\text{jre.bin\javaw.exe} (Mar 19_26_5]

Student:

ID: 97000

Name: Sameer
GPA: 3.51

Student:

ID: 98000

Name:
GPA: 3.22

Undergraduate Student:
ID: 99000

Name: Shahid
GPA: 2.91
Year: Junior

Graduate Student:
ID: 200000

Name: Mubin
GPA: 3.57

Thesis: Algorithms & Complexity
```