Wasfi Momen

CSC 2310

Lab Thursday 9:30-10:20

Class Diagram

Doctor

Fields:

* years(int)
* Speciality(string)

Methods:

* getYears()
* getSpeciality()
* getSalary()

Student

Fields:

* major(String)
* gpa(double)
* creditHours(int)

Methods:

* getMajor()
* getGPA()
* getYear()

Human

Fields:

* height (double)

Methods:

* getHeight: returns height

Mammal

Fields:

* age(int)
* weight(float)

Methods:

* getWeight()
* getAge()

Outputs

**> Mammal man1 = jack; System.out.println((Man1).getSalary());**

Since getSalary is not a method in the Mammal class, the output will be an error.

**> Human hum1 = alex; System.out.println(Hum1.getHeight());**

Since getHeight() is a method in the Human class, the line will print out the height of the object alex.

**> Mammal man1 = jack; System.out.println(man1.getWeight());**

Since getWeight() is a method in the Mammal class, the line will print out the weight of the object jack.

**> Mammal man1 = jack; System.out.println((Human)man1.getHeight());**

The Mammal class is being type-casted to the Human class which has the method getHeight(), so the line will print out the height of jack.