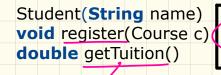
Creating Tutorial Materials as Lecture Supplements by Integrating Drawing Tablets and Video/Sharing

Chen-Wei Wang

Computer Science Education Research Conference CSERC'19

Inheritance Hirarchy: Students





String name Course[] courses int noc

Resident Student

ResidentStudent(String name)
double premiumRate
void setPremiumRate(double r)
double getTuition() /* overridden */

NonResidentStudent

NonResidentStudent(String name)
double discountRate
void setDiscountRate(double r)
double getTuition() /* overridden */

Testing the Student Management System public class SMSTester + 2 public static void main(String[] args) Course eecs2030 = new Course("Advanced OOP", 1000.0); sms Course eecs3311 = new Course("Software Design", 1000.0); ResidentStudent heeyeon = new ResidentStudent("Heeyeon"); heeyeon.setPremiumRate(1.25); **StudentManagementSystem** heeyeon.register(eecs2030); heeyeon.register(eecs3311); nos NonResidentStudent jiyoon = new NonResidentStudent ("Jiyoon"); 10 jiyoon.setDiscountRate(0.75); students 11 jiyoon.register(eecs2030); 12 jiyoon.register(eecs3311); 13 StudentManagementSystem **sms** = **new** StudentManagementSystem(); 9999 14 sms.add(heeveon); 15 sms.add(jiyoon); 16 17 NonResidentStudent ResidentStudent jiyoon heeyeon → "Heeyeon" name Jiyoon" name noc 0 (1) noc _courses/ >) 1 · · courses premiumRate 1.25 discountRate 0.70 eecs2030 eecs3311 ~ Course Course title Advanced OOP" title "Software Design" 1000.0

Testing the Student Management System public class SMSTester { 2 public static void main(String[] args) { Course eecs2030 = new Course ("Advanced OOP", 1000.0); sms Course eecs3311 = new Course("Software Design", 1000.0); 4 ResidentStudent heeyeon = new ResidentStudent("Heeyeon"); heeyeon.setPremiumRate(1.25); StudentManagementSystem heeyeon.register(eecs2030); 8 heeyeon.register(eecs3311); nos NonResidentStudent jiyoon = new NonResidentStudent("Jiyoon"); 10 jiyoon.setDiscountRate(0.75); students 11 jiyoon.register(eecs2030); 12 jiyoon.register(eecs3311); 13 StudentManagementSystem sms = new StudentManagementSystem(); 9999 14 sms.add(heeyeon); 15 sms.add(jivoon); 16 17 > NonResidentStudent ResidentStudent jiyoon ' heeyeon' "Heeyeon" name 'Jiyoon' name noc noc courses courses premiumRate discountRate eecs2030 eecs3311 ~ Course Course title ⇒"Advanced OOP" title Software Design" fee fee 1000.0 1000.0

Creating Effective Tutorials

