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| 2017년 10월 10일 Java 실습보고서 |
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| 실습 1) Ticket 클래스 |

**■ 소스코드**

**[TicketDriver.java]**

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\* [실습1] Ticket 클래스

\* 입장권 관리 클래스를 완성하시오.

\*/

package source;

import java.text.SimpleDateFormat;

import java.util.Date;

public class TicketDriver {

public static void main(String[] args) {

// TODO Auto-generated method stub

Ticket ticket1=new Ticket();

Ticket ticket2=new Ticket(100, 2000);

ticket1.setNumber(101);

ticket1.setPrice(2000);

System.out.println(ticket1); // 객체를 출력하면 toString() 함수가 자동 호출

System.out.println(ticket2);

}

}

**[Ticket.java]**

**package** source;

**public** **class** Ticket {

**protected** **int** number;

**protected** **double** price;

**public** Ticket(){

**this**(0, 0.0);

}

**public** Ticket(**int** number, **double** price){

**this**.number=number;

**this**.price=price;

}

**public** **void** setPrice(**double** price){

**this**.price=price;

}

**public** **void** setNumber(**int** number){

**this**.number=number;

}

**public** **int** getNumber(){

**return** number;

}

**public** **double** getPrice(){

**return** price;

}

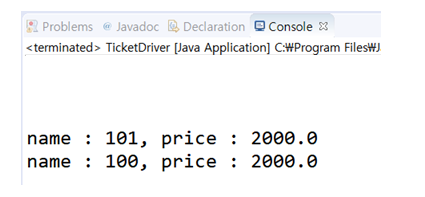
**public** String toString(){

**return** "number : "+number+", price : "+price;

}

}

**■ 결과화면**

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| 실습 2) Ticket 상속 |

**■ 소스코드**

**[TicketDriver.java]**

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\* [실습2] Ticket 상속

\* Ticket 클래스를 상속 받아 GeneralTicket과 AdvanceTicket클래스를 구성하시오.

\*/

**package** source;

**import** java.text.SimpleDateFormat;

**import** java.util.Date;

**public** **class** TicketDriver {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

GeneralTicket ticket=**new** GeneralTicket();

ticket.setNumber(100);

ticket.setPrice(2000);

GeneralTicket ticket2=**new** GeneralTicket(101, 2000, **true**);

System.***out***.println(ticket);

System.***out***.println(ticket2);

AdvanceTicket ticket3=**new** AdvanceTicket(200, 2000, 25);

System.***out***.println(ticket3);

}

}

**[Ticket.java]**

**package** source;

**public** **class** Ticket {

**protected** **int** number;

**protected** **double** price;

**public** Ticket(){

**this**(0, 0.0);

}

**public** Ticket(**int** number, **double** price){

**this**.number=number;

**this**.price=price;

}

**public** **void** setPrice(**double** price){

**this**.price=price;

}

**public** **void** setNumber(**int** number){

**this**.number=number;

}

**public** **int** getNumber(){

**return** number;

}

**public** **double** getPrice(){

**return** price;

}

**public** String toString(){

**return** "number : "+number+", price : "+price;

}

}

**[GeneralTicket.java]**

**package** source;

**public** **class** GeneralTicket **extends** Ticket{

**private** **boolean** payByCredit;

**public** GeneralTicket(){

**this**.payByCredit=**false**;

}

**public** GeneralTicket(**int** number, **double** price, **boolean** payByCredit){

**super**(number, price);

**this**.payByCredit=payByCredit;

}

**public** **double** getPrice(){

**if**(**this**.payByCredit)

**return** price\*1.1;

**return** price;

}

**public** **boolean** getPayByCredit(){

**return** payByCredit;

}

**public** String toString(){

**return** getNumber()+" : "+getPrice();

}

}

**[AdvanceTicket.java]**

**package** source;

**public** **class** AdvanceTicket **extends** Ticket{

**private** **int** advanceDays;

**public** AdvanceTicket(){

**super**(0, 0.0);

**this**.advanceDays=0;

}

**public** AdvanceTicket(**int** number, **double** price, **int** advanceDays){

**super**(number, price);

**this**.advanceDays=advanceDays;

}

**public** **double** getPrice(){

**if**(advanceDays>=30)

**return** price\*0.6;

**else** **if**(advanceDays>=20)

**return** price\*0.7;

**else** **if**(advanceDays>=10)

**return** price\*0.8;

**else**

**return** price;

}

**public** **int** getAdvanceDays(){

**return** advanceDays;

}

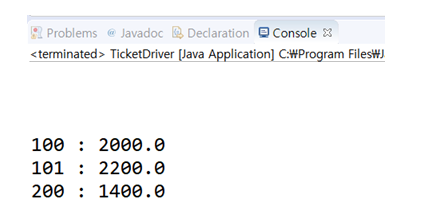
**public** String toString(){

**return** getNumber()+" : "+getPrice();

}

}

**■ 결과화면**

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