객체지향언어 2

1차 과제

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실습문제 1)

실행코드 :

```
public class TV {

String brand;
int createDate;
int inch;

public TV(String brand, int createDate, int inch) {
    this.brand = brand;
    this.createDate = createDate;
    this.inch = inch;
}

public void show() {
    System.out.println(brand+"에서 만든 "+ createDate +"년형 " +
inch+"인치 TV");
}

public static void main (String[] args) {
    TV myTV = new TV("LG", 2017, 32);
    myTV.show();
}
```

실행 화면:

```
/Library/Java/JavaVirtualMachines/je

-Dfile.encoding=UTF-8 -classpath /

LG에서 만든 2017년형 32인치 TV

Process finished with exit code 0
```

실습문제 2)

실행코드:

```
package class02.homework;
import java.util.Scanner;
public class Grade {
   int math;
   int english;
   public Grade(int math, int science, int english){
      this.math = math;
      this.science = science;
      this.english = english;
   public double average(){
      return (math+science+english)/3;
   public static void main(String [] args){
      Scanner scanner = new Scanner(System.in);
      System.out.println("수학, 과학, 영어 순으로 3개의 점수입력>>");
      int math = scanner.nextInt();
      int science = scanner.nextInt();
      int english = scanner.nextInt();
      Grade me = new Grade(math, science, english);
      System.out.println("평균은 "+ me.average());
      scanner.close();
```

실행 화면:

```
/Library/Java/JavaVirtualMachines/jdk

-Dfile.encoding=UTF-8 -classpath /Us

수학, 과학, 영어 순으로 3개의 점수입력>>

90 88 96

평균은 91.0

Process finished with exit code 0
```

실습문제 3)

실행코드:

```
package class02.homework;
public class Song {
   String title;
   String artist;
   String country;
   public Song (String title, String artist, int year, String country){
      this.title = title;
      this.artist = artist;
      this.year = year;
      this.country = country;
   public void show(){
      System.out.println(year+"년 "+ country+"국적의 " + artist+"가 부른
"+ title);
   public static void main(String[] args){
      Song mySong = new Song("Dancing Queen", "ABBA", 1978, "스웨덴");
      mySong.show();
```

실행화면:

```
/Library/Java/JavaVirtualMachines/jdk-9.0.4

-Dfile.encoding=UTF-8 -classpath /Users/ja
1978년 스웨덴국적의 ABBA가 부른 Dancing Queen

Process finished with exit code 0
```

실습문제 4)

실행코드:

```
package class02.homework;
public class Rectangle {
   int height;
   public Rectangle (int x, int y, int width, int height){
       this.y = y;
       this.width = width;
       this.height = height;
   public int square(){
       return width*height;
   public void show(){
       System.out.println("("+x+","+y+")"+"에서 크기가 "+ width + "x" +
   public boolean contains(Rectangle r){
       if( square() > r.square()) {
          return true;
       } else {
   public static void main (String [] args){
       Rectangle r = new Rectangle(2, 2, 8, 7);
       Rectangle s = new Rectangle(5, 5, 6, 6);
Rectangle t = new Rectangle(1, 1, 10, 10);
       r.show();
       System.out.println("s 의 면적은 "+ s.square());
       if(t.contains(r)) System.out.println("t는 r을 포함합니다.");
       if(t.contains(s)) System.out.println("t는 s를 포함합니다.");
```

실행화면 :

```
/Library/Java/JavaVirtualMachines/j

-Dfile.encoding=UTF-8 -classpath
(2,2)에서 크기가 8x7인 사각형
s의 면적은 36
t는 r을 포함합니다.
t는 s를 포함합니다.
```