**abstract** **class** Figure{

**abstract** **void** area();

**abstract** **void** girth();

**abstract** **void** draw();

}

**class** Circle **extends** Figure{

**double** r;

Circle(){r=1;}

Circle(**double** x){r=x;}

**public** **void** area() {System.***out***.println("원의 넓이="+r\*r\*3.14);}

**public** **void** girth() {System.***out***.println("원의 둘레="+r\*2\*3.14);}

**public** **void** draw() {**double** x; **double** y; **for**(x=-2\*r;x <= 2\*r; x+=2) {

**for**(y=-r;y<=r;y++) {

**if**((x\*x+y\*y)>=r\*r-r/1.3 &&(x\*x+y\*y)<=r\*r+r/1.3)

System.***out***.print("\*");

**else**

System.***out***.print(" ");

}

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

}}

}

**class** Square **extends** Figure{

**double** line1;

**double** line2;

Square(){line1=1;line2=1;}

Square(**double** x, **double** y) {line1=x;line2=y;}

**public** **void** area() {System.***out***.println("사각형의 넓이="+line1\*line2);}

**public** **void** girth() {System.***out***.println("사각형의 둘레="+(line1\*2+line2\*2));}

**public** **void** draw() {

**for**(**int** i = 0; i < line1; i++) {

**for**(**int** j=0; j < line2; j++) {

System.***out***.print("\*");

}

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

}

}

}

**public** **class** Test3 {

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

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

Circle c = **new** Circle(2);

c.area();

c.girth();

c.draw();

Square s = **new** Square(2,3);

s.area();

s.girth();

s.draw();

}

}

