```
Hello, world!
void setup() {
  print("Hello, world"); //println("Hello, world");
  text("Hello, world", 0, 30);
}
void draw() {
  // background(0);
}
Joining strings / frameCount / millis()
void draw() {
  println("Hello, " + "world");
  println("frames " + frameCount);
  text("Time elapsed " + millis(), 0, 30);
}
comment1
//print("Hello world\n");
print("Hello world");
comment2
/*print("Hello world\n");
print("Hello world"); */
```

```
beginShape - triangle
size(500, 500);
fill(255, 0, 0);
stroke(0,0,255);
beginShape();
vertex(250, 250);
vertex(150, 350);
vertex(350, 350);
endShape(CLOSE);
mouseX, mouseY
void setup()
 size(500,500);
void draw()
 background(0);
 ellipse(mouseX,mouseY,100,100);
 // ellipse(width - mouseX, mouseY, 100, 100);
움직이는 사각형 - 변수
int rectPosX = 0; // let's change it to float
void setup(){
  size(500,500);
}
```

```
void draw(){
  background(0);
  fill(255,0,0);
  rect( rectPosX,30,50,50);
  rectPosX = rectPosX + 1; // how to make it slower?
}
시계그리기
void draw() {
   background(0);
   noStroke();
   fill(255);
   pushMatrix();
   translate(width/2, height/2);
   rotate(frameCount * 0.01);
   //translate(-100, 0);
   //rect(width/2, height/2, 100, 2);
   rect(0, 0, 100, 2);
   popMatrix();
   ellipse(250, 250 - 100, 10, 10);
}
if- control animation 1
float ex = 250;
float speedX = random(-10,10);
void setup(){
 size(500,500);
```

```
void draw(){
 background(0);
 fill(255);
 ellipse(ex, 250, 30,30);
 ex += speedX;
 if( ex > 500 ){
  ex = 500;
 if( ex < 0 ){
  ex = 0;
 }
}
if- control animation 2
float ex = 250;
float speedX = random(-10,10);
void setup(){
 size(500,500);
void draw(){
 background(0);
 fill(255);
 ellipse(ex, 250, 30,30);
 ex += speedX;
 if( ex > 500 ){
  ex = 0;
 }
```

```
if( ex < 0 ){
  ex = 500;
}
conditionals 4 수식 + mouse
void setup(){
 size(500,500);
 rectMode(CENTER);
}
void draw(){
 background(0);
 if( mouseX > 250){
  rect(350,250,100,100);
 }else{
  rect( 150,250,100,100 );
}
conditionals 5 mouse
void setup(){
 size(500,500);
 rectMode(CENTER);
}
void draw(){
 background(0);
 if( mousePressed ){
  rect( mouseX, mouseY, 50,50 );
```

```
}
mousePressed() 차이
int point = 0;
void setup() {
  size(500, 500);
}
void draw() {
   background(0);
   textSize(30);
   text("my point " + point, 100, 100);
  //if (mousePressed) {
  // point += 1;
   //}
}
void mousePressed() {
 point += 1;
}
for loop 1
println("start");
for( int i=0; i<100; i+=1){
  println(i);
}
println("out");
// 1~100을 프린트하고 싶다면?
// 50~149 를 프린트하고 싶다면?
```

```
for loop 2
size(500,500);
background(0);
stroke(255);
for( int i=0; i< 100; i++ ){
 line(i*5,0, i*5,height);
for loop 2
size(500,500);
background(0);
stroke(255);
for(int i=0; i<100; i++){
 if( i%5==0 ) stroke(255,0,0);
 else stroke(255);
 line(i*5,0, i*5,height);
for loop 3
size(500,500);
background(0);
stroke(255);
for(int i=1; i<100; i++){
 ellipse(random(width), random(height), 10, 10);
```

```
for loop 4 + if
size(500,500);
background(0);
stroke(255);
strokeWeight(3);
for(int i=0; i<50; i++){
 if( i<25 ) stroke(255,0,0);
 else stroke(255);
 line(i*10,0, i*10,height);
for loop 4 + modulo
size(500,500);
background(0);
stroke(255);
strokeWeight(3);
for(int i=0; i<50; i++){
 if( i%5==0 ) stroke(255,0,0);
 else stroke(255);
 line(i*10, 0, i*10, height);
for loop 5
```

size(500,500);

}

```
background(0);
stroke(255);
for(int i=0; i<100; i++){
 //ellipse( random(width), random(height), 10, 10 );
 ellipse(random(width), random(height), random(10), random(10));
}
for loop 6
size(500,500);
background(0);
fill(255);
for( int i=0; i<100; i++){
 float r = random(10);
 ellipse(random(width), random(height), r, r);
}
for loop 7
size(500,500);
background(0);
noFill();
stroke(255);
for( int i=0; i<30; i++){
 float r = i*15;
 ellipse( width/2, height/2, r, r);
}
for loop 2D
```

```
size(500,500);
background(0);
stroke(255);
for( int i=0; i<10; i++){
 for( int j=0; j<10; j++){
  ellipse( i*50, j*50, 5, 5);
 }
}
for loop 3D
void setup() {
 size(500, 500, P3D);
}
void draw() {
 background(0);
 translate(250,0);
 rotateY( mouseX*0.1 );
 translate(-250,0);
 fill(255, 255, 255);
 for ( int k=0; k < 10; k++ ) {
  for (int j=0; j<10; j++) {
    for (int i=0; i<10; i++) {
     pushMatrix();
     translate(i*40, j*40, k*30);
     rect(0,0,30,30);
     popMatrix();
  }
```