Lab Exercises

Parameters
Create a function for drawing a face.

Use two parameters to change its position and two more to change the shape. Using your function, draw 9 faces in the display window in a regular 3 * 3 matrix. Use different parameters to give each face drawn a unique shape.

Images
Draw two images in the display window.

Draw three images, each with a different tint.

Load a GIF or PNG image with transparency and create a collage by layering the image.

Recursion
Modify the drawCircle() example to draw a complex design using recursion.

```java
void setup() {
    size(200, 200);
    background(255);
    fill(0, 32);
    noStroke();
    smooth();
    drawCircle(width/2, height/2, width/2, 10);
}

void drawCircle(int x, int y, int r, int num) {
    ellipse(x, y, r*2, r*2);
    if (num > 0) {
        drawCircle(x - r/2, y, r/2, num-1);
        drawCircle(x + r/2, y, r/2, num-1);
    }
}
```

Try adding colour to your recursive sketch.