

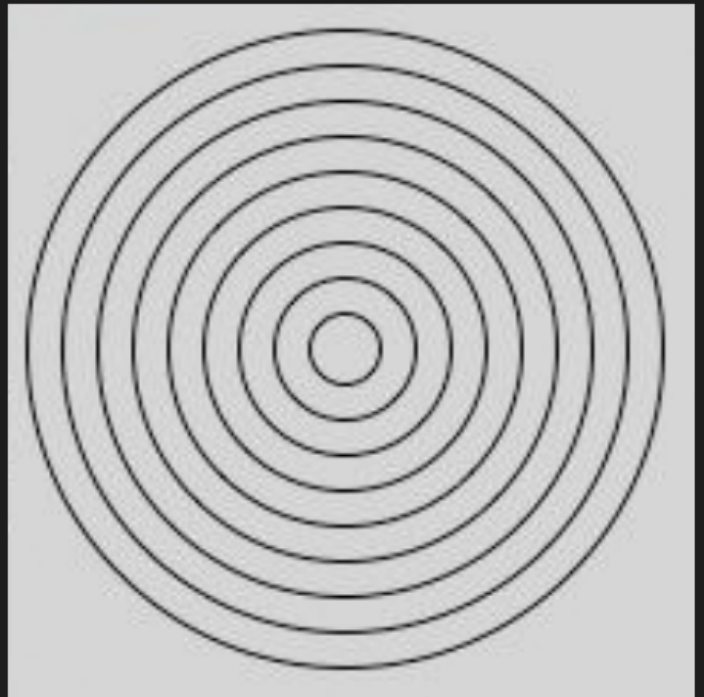
Week04_Exercise 1

William Pang

```
///week04_Exercise_1.1
function setup() {
  createCanvas(500, 500);
  background(200);

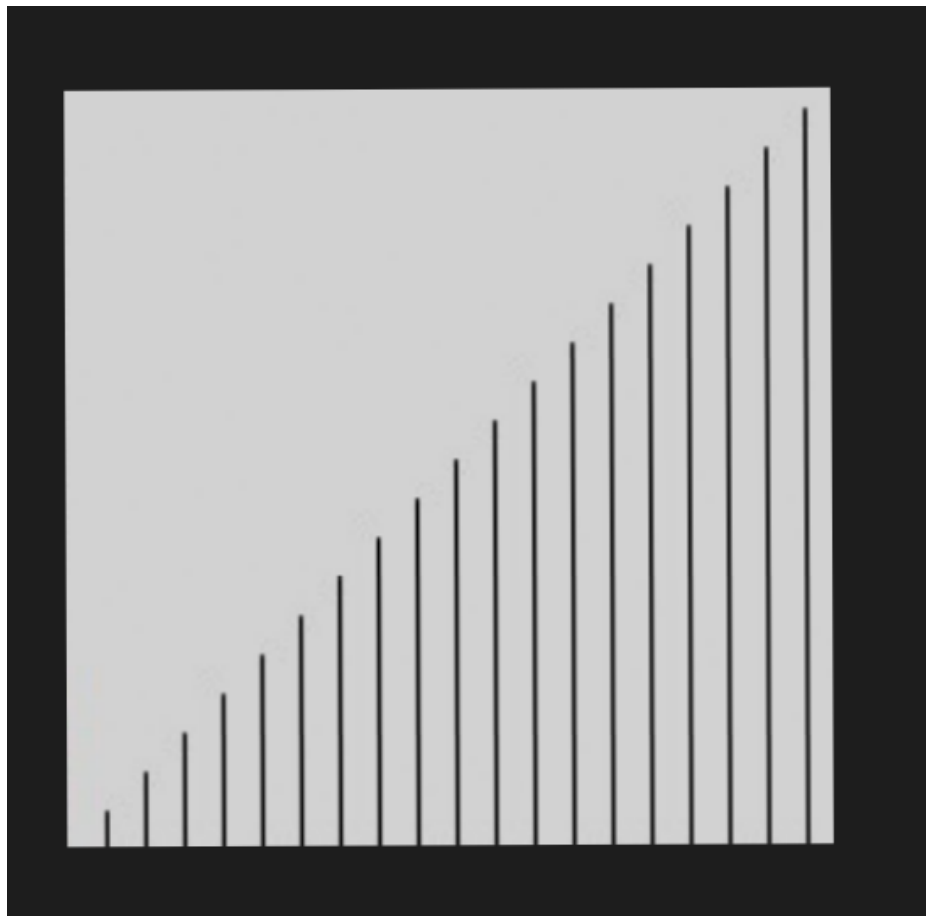
  for (x = 0; x < height; x += 50) {
    noFill();
    strokeWeight(1);
    stroke(0);

    ellipse(width / 2, height / 2, x);
  }
}
```



Week04_Exercise I

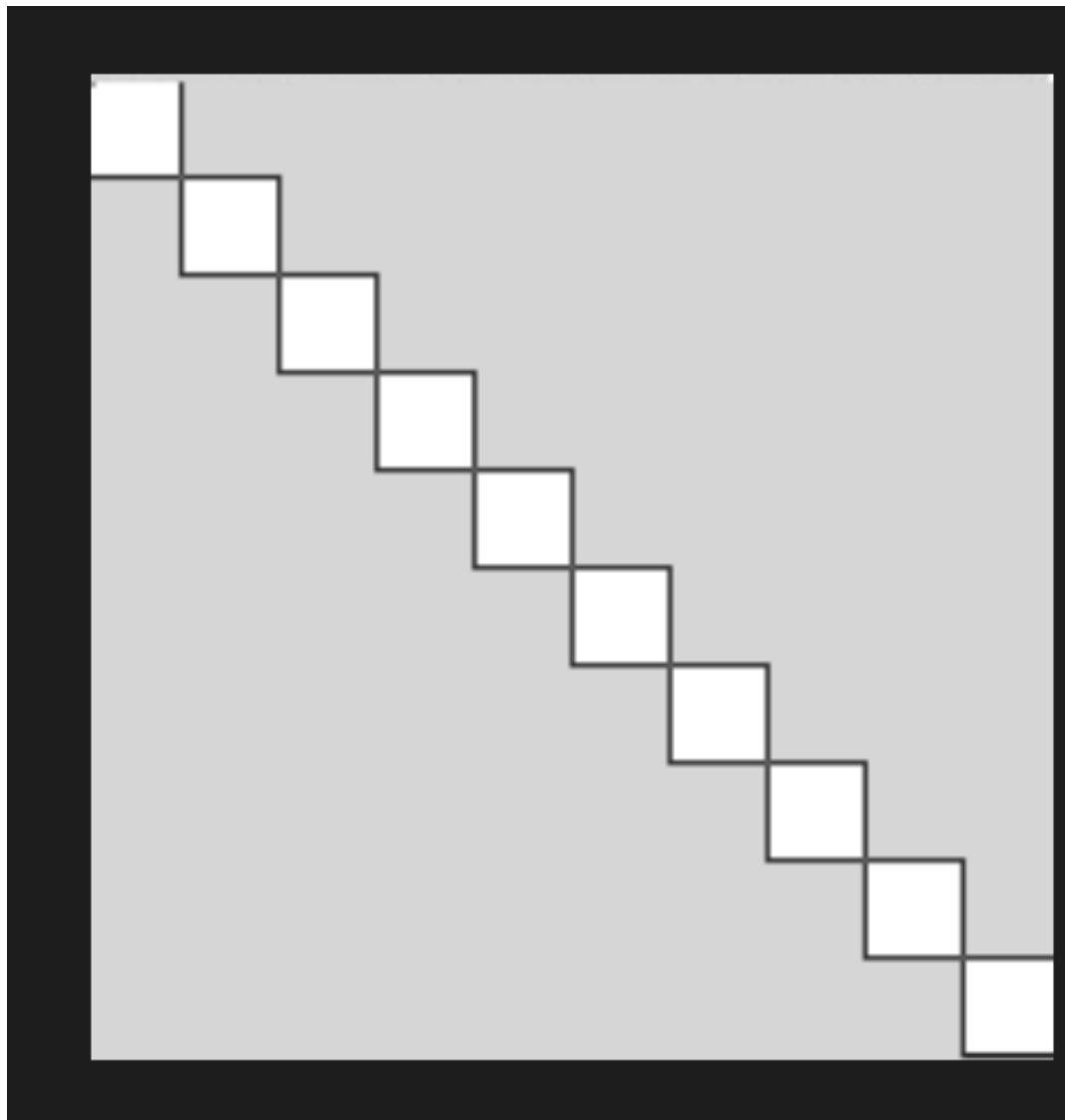
```
//week04_Exercise_1.2
function setup() {
  createCanvas(400, 400);
  background(200);
  strokeWeight(1.5);
  for (x = 0; x < width; x += 20) {
    fill(200);
    line(x, 400, x, 400 - x);
  }
}
```



Week04_Exercise I

```
//week04_Exercise_1.3
function setup() {
  createCanvas(500, 500);
  background(200);

  for ( x = 0; x < width; x += 50) {
    fill(255);
    rect(x, x, 50, 50);
  }
}
```



Week04_Exercise II

```
//week04_Exercise_2a_twoforloops
```

```
function setup() {
```

```
  createCanvas(600, 120);
```

```
  background(220);
```

```
  for (let x = 10; x < 120; x += 12) {
```

```
    noFill();
```

```
    strokeWeight(1);
```

```
    stroke(0);
```

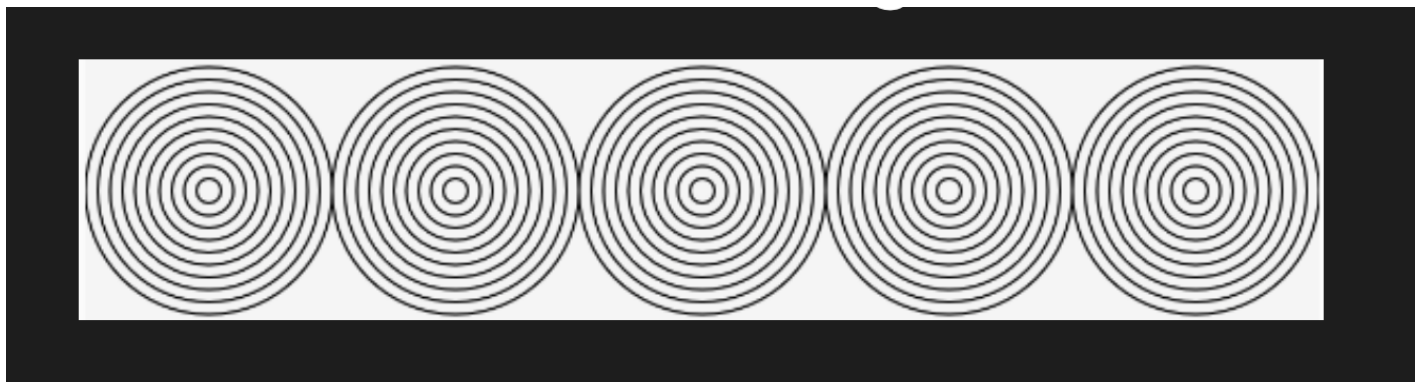
```
    for(let i = 0; i <= 480; i += 120) {
```

```
      ellipse(60 + i, height / 2, x);
```

```
    }
```

```
  }
```

```
}
```



Week04_Exercise II

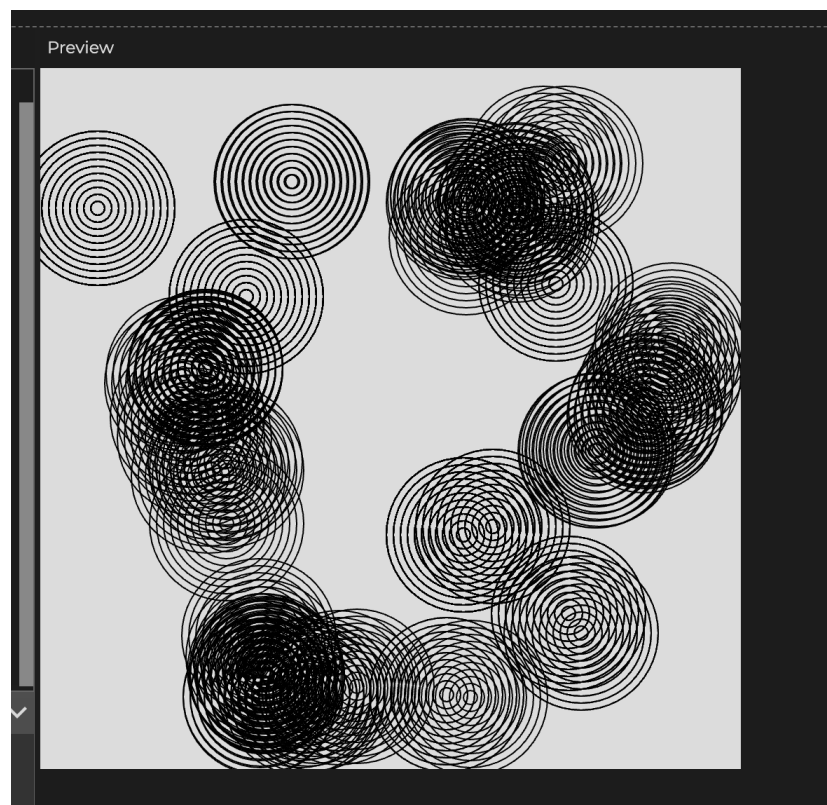
```
//week04_Exercise_2b_MousePress_ellipse
```

```
function setup() {  
  createCanvas(500, 500);  
  background(220);  
}
```

```
function draw() {  
  if (mouseIsPressed) {  
    drawEllipse();  
  }  
}
```

```
function drawEllipse() {  
  let x = mouseX;  
  let y = mouseY;
```

```
  for (let size = 10; size <= 110; size += 10) {  
    noFill();  
    strokeWeight(1);  
    stroke(0);  
    ellipse(x, y, size);  
  }  
}
```



Week04_Exercise III

```
//week04_Exercise_3
function setup() {
  createCanvas(500, 200);
  background(255);

  for (let i = 0; i < 10; i++) {
    if (i % 2 === 0) {
      fill(200);
    } else {
      fill(0);
    }

    square(5 + i * 50, 75, 40);
  }
}
```



Week04_Exercise IIII

```
//week04_Exercise_4a
```

```
function setup() {  
  createCanvas(600, 140);  
  background(220);  
  
  for (let x = 60; x <= width - 60; x += 120) {  
    for (let d = 120; d >= 12; d -= 12) {  
      if (d % 24 === 0) {  
        fill(150);  
      } else {  
        fill(0);  
      }  
      ellipse(x, height / 2, d);  
    }  
  }  
}
```



Week04_Exercise IIII

```
//week04_Exercise_4b
```

```
function setup() {  
  createCanvas(600, 140);  
  background(220);  
  
  let Gray = true;  
  for (let x = 60; x <= width - 60; x += 120) {  
    let fillColor = Gray ? 150 : 0;  
    for (let d = 120; d >= 12; d -= 12) {  
      fill(fillColor);  
      ellipse(x, height / 2, d);  
      fillColor = fillColor === 150 ? 0 : 150;  
    }  
    Gray = !Gray;  
  }  
}
```

Preview

