

# cis111-2023-3-project01

v2023-11-03

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## Submission

**Due:** 2023-11-19T23:00

Submit your `Project2023_3_01.java` before due date via YULearn.

## Description:

In this project you are expected to draw 2 letters as we did in week03 where the circles should be tangent to each other.

1. Select the first 2 letters either in your name or your lastname.
2. You will write a code to draw the selected letters in upper case form.
3. Use the template below:

```

package project01;

import java.io.File;
import hplib.io.svg.*;

public class Project2023_3_01 {

    public static void main(String[] args) {

        Paper paper = new Paper(0, 0, 600, 300);

        final String MY_NAME = "YourName";
        final String MY_ID = "YourStudentNumber";
        String nameId = MY_NAME + "_" + MY_ID;
        /**/System.out.println("nameId: " + nameId);
        //
        final int HEIGHT = 10;
        //
        final int X_0 = 50; // x of the center of the upper-left circle
        final int Y_0 = 50; // y of the center of the upper-left circle
        final int RADIUS = 10; // radius of the circles
        //
        int circleNumberOf = HEIGHT;

        Circle cTmp;
        for (int i = 0; i < circleNumberOf; i++) {
            cTmp = new Circle(X_0 + 10 * i, Y_0 + 20 * i, RADIUS);
            cTmp.setColorFill(SVGLib.COLOR_CONIFER);
            cTmp.setColorStroke(SVGLib.COLOR_BLACK);
            cTmp.setStrokeWidth(5);
            paper.add(cTmp);
        }

        // to html
        String fileName = "Project2023_3_01_" + nameId;
        /**/System.out.println("fileName: " + fileName);
        String pathToFile = "_generated" //
            + File.separator + "project01" //
            + File.separator;
        //
        paper.toHtml(pathToFile, fileName);
    }

}

```

4. You need to modify `src`:

- Add package `project01` in `src`
- Add class `Project2023_3_01.java` in `project01`.
- Copy the given template in `Project2023_3_01.java`.

5. You need to modify `_generated`:

- Add directory `project01` in `_generated` so that file `Project2023_3_01_VeliOzoglu_12345.html` is generated in `_generated/project01`.

6. `MY_NAME` is your name in english alphabet without space in between. `MY_ID` is your student

number.

7. The **HEIGHT** of the letters is 10, that is, 10 circles.

- You decide on the proper *width* of each letter. Of course, the width of letter "I" should be less than that of letters "N" or "M".
- You decide the *space* between the letters.

*Example:* If student Veli Özoğlu with student number 12345, then **nameId** becomes **Veli0zoglu\_12345**. Then the letters would be either **VE** or **OZ**.

## Evaluation criteria

- When **X\_0** and/or **Y\_0** are changed, both letters should go to the new location.
- When **RADIUS** is changed, the shape should be preserved.