CSC108H lab – week 10

This document contains the instructions for the week 10 CSC108H lab. To earn your lab mark, you must actively participate in the lab. *You don't need to finish in the time alloted, you just need to try hard.*

In this lab, you will pick a new lab partner, and work with arrays of `JFrames`.

1 Icebreaker and (possible) A4 partner selection

You are encouraged, but not required, to work in pairs. However, if you aren't planning to do real pair programming, do everyone a favour and sign up to work on A4 alone. If you think you can split the work down the middle on A4 and never your partner, think again. It's really not that kind of assignment.

2 Arrays of `JFrames`

Write a class called `JFrameList` that has a single `JFrame[]` instance variable. The constructor should take the size of the array as a parameter, and should also fill the array with `JFrames`. Make each `JFrame` 150x150.

Write a `display` method that `shows` all the `JFrames`.

Compile it and test it from the Interactions pane.

Switch roles: the navigator becomes the driver and the driver becomes the navigator.

As you saw in week 3, the following code retrieves the screen width and height:

```
Dimension d= Toolkit.getDefaultToolkit().getScreenSize();
int screenWidth= (int) d.getWidth();
int screenHeight= (int) d.getHeight();
```

Write a `displayDownRight` method that sets the location of all the `JFrames` so that they are spread evenly from top left to bottom right. Put the first `JFrame` at (0, 0) and the last `JFrame` so that its bottom right corner is touching the bottom right corner of the screen.

Compile it and test it from the Interactions pane.

Switch roles: the navigator becomes the driver and the driver becomes the navigator.

Write a `displayDownLeft` method that sets the location of all the `JFrames` so that they are spread evenly from top right to bottom left.

Compile it and test it from the Interactions pane.