Evaluation

Is it working as intended?

* Yes.
* The code makes a fully functioning Conway’s Game of Life simulation, allowing for coloured tiles and the ability to create and use blueprints.

Can you get back to your code and understand it?

* Yes, I have worked on this project on and off for a long while and have been able to re-understand it every time.

Should the code be refactored?

* Technically, yes, however there are a few problems.
  + If I want to separate draw functions and background functions into their own classes, certain draw functions fail to load.
  + This means I cannot create a neatly segmented code.
* Basically, there are small number of aspects I would like to refactor however I am unable to do so.

Have you applied DRY?

* Mostly, however some functions I have had to copy between forms.
  + This is because you cannot inherit from several classes, so I cannot make a parent that both of these form files inherit from.
  + (All forms have to inherit from the Form class which is why there is a conflict.)
* This however is “made up” by the fact that most of the reused code is modified, and hence cannot necessarily be shared by both classes.

Separation of Concerns?

* Most functions do singular tasks and call over functions to do other tasks.
* The only exception are functions which can 2 do different tasks depending on a variable, however those tasks are mutually exclusive.
* To change this, the code would involve a lot more “jumping through hoops” to get to the code that makes functions work.

Have you commented the code and are the variable and component names meaningful?

* I have commented my code and made most variables and components have meaningful names.

What would you do differently if you had to start over?

* The one main criticism I would have of its performance is the resizing feature, which is often particularly slow.
  + I would look at a better system of implementing that feature.
* I would also try make a more efficient system for updating the tiles.

What have you learned?

* I have learnt lots about windows forms and graphical interfaces.
* I have also learnt a lot about Conway’s Game of Life.

Screenshots

A picture containing shoji

Description automatically generated

Graphical user interface, application, table

Description automatically generated

Chart, scatter chart

Description automatically generated

Graphical user interface

Description automatically generated

Table

Description automatically generated