

**CS 1632 Software Quality Assurance**

**Deliverable 4**

Member 1 Name: Shishir Timsina

Member 2 Name:

Team Name: Shishir\_d4

1. **Introduction**

Write your retrospective here. Please describe the division of work between group members. Also, please describe any difficulties that you faced while using VisualVM.

I worked alone. No issues with VisualVM.

1. **Optimized Feature 1**
   1. Write the name of the feature optimized (the label on the button)  
      Run/Run Continuous
   2. Write the name(s) of the method(s) you refactored to optimize this feature  
      iterateCell, calculateNextIteration
   3. Insert a screenshot of VisualVM CPU profiling ***after*** optimizing Feature 1. Please include only the “Hot spots” window in the screenshot.   
      Table

      Description automatically generated
2. **Optimized Feature 2**
   1. Write the name of the feature optimized (the label on the button)  
      Write
   2. Write the name(s) of the method(s) you refactored to optimize this feature  
      MainPanel.toString() -> Cell.toString()
   3. Insert a screenshot of VisualVM CPU profiling ***after*** optimizing Feature 2. Please show only the profile for Feature 2 (do not invoke Feature 1 while profiling). Please include only the “Hot spots” window in the screenshot, as before.

A picture containing application

Description automatically generated