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| **Assignment 5** |  | **Document Particle App Conversion Strategy** |  |  | **Submitted By:**  *Gayathri Gopakumar*  *Mustafa Khan*  *Vikash Kumar* |

1. **Understand the functionality of the particle app.**

Ona drawing canvas(Window) we need to draw random square on the basis of the  
 location of the particle.

Need to understand the concurrent behaviour of the classes or particles.

Applet.start() should invoke the func. And Applet.stop() should stop working.

Creation of github repo with the initial code pushed

Start implementation using the source code provided.  
Fix the issue with the existing code.

Do modification if needed.

1. **Document Particle App Conversion Specification and Implementation**

Documentation of the classes and methods for the Particle app

Implementation of methods

Choosing suitable data structures, application of thread synchronisation for particle motion

Including Inline documentation for methods of each class.

1. **Finalise the test case.**

Understand and setup Junit testing

Test case writing.

Review the test case.

Manual testing of the testcase.

Construction and execution of the Junit testing

Automate test case and analyse the passed/failed test case.

Run a JUnit from the Command Line/IDE

1. **Final Documentation and demonstration.**

Creation of the Power point slides (**Software used :** Java Swing.Java8 onwards, Junit (Test Cases.)**.**)

Final team POC and review of the application

Recording the result of particle application in the form of video.

Word documentation

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