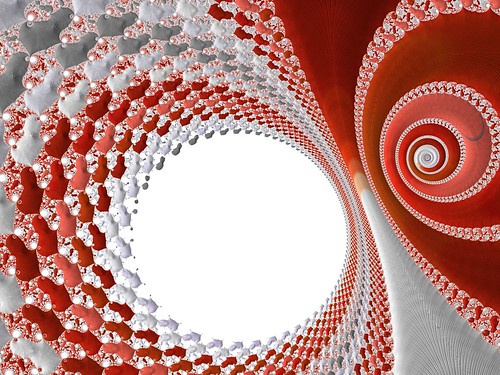
**Course Project Objectives and Tasks**

[](https://secure.flickr.com/photos/12836528@N00/35388675155)

**Objectives:**

* Apply discrete structure theorem and principles in programming.
* Implement algorithm to create a working program in C++.
* Include calculation methodology from course primary concepts in computation.
* Explore relevant real-world applications of discrete structures.

**Tasks:**

1. Form team and plan project.
2. Documentation: program purpose and objectives, flow chart, pseudo-code.
3. Build and test program in C++.
4. Post project and collaborate on GitHub.
5. Complete team evaluation for project contribution.

**Project Criteria**

This course project encapsulates discrete structure essential concepts. See below document for project options.

1. Part 1: Post discussion, sign up for an option and select a team (team is optional) (20 points)
2. Part 2: Write program and compose documentation for the selected option. (200 points)
3. Part 3: Complete Self and Team evaluation form and post project to E-portfolio. (80 points)

* Course Project Explained Video: <https://youtu.be/7xnH8c0M_qI>
* [CIS7 Course Project Part 2-1-2.docx](https://rccd.instructure.com/courses/62538/files/11176000?wrap=1)

# Project Examples

 Vigenere:

* <https://repl.it/@ProfKaseyNguyen/DK-Vigenere-Encryption>

 [Links to an external site.](https://repl.it/@ProfKaseyNguyen/DK-Vigenere-Encryption)

 <https://repl.it/@ProfKaseyNguyen/ViginereTHICC>

*  [Links to an external site.](https://repl.it/@ProfKaseyNguyen/ViginereTHICC)

 Black Jack:

* <https://repl.it/@ProfKaseyNguyen/Team-BlackJack>
*  [Links to an external site.](https://repl.it/@ProfKaseyNguyen/Team-BlackJack)

 Doctors Above Borders:

* <https://repl.it/@ProfKaseyNguyen/JC-Doctors-Without-Border>
*  [Links to an external site.](https://repl.it/@ProfKaseyNguyen/JC-Doctors-Without-Border)

 Solar Sales:

* <https://repl.it/@ProfKaseyNguyen/JH-Solar-Sales>

[Links to an external site.](https://repl.it/@ProfKaseyNguyen/JH-Solar-Sales)