**Search Program Project**

**Requirements:**

1. Write Command Line interface for search sequence of integers in given matrix of integers rows.
2. Input matrix data should be private to the class.
3. Implement search functions for below criteria.
   1. Find all rows that have a specific sequence of numbers
   2. Find all rows that contain all the required numbers
   3. Find the row that has the closest match to a specific number sequence

And display the row numbers in console.

1. Allow to give multiple search sequence in input text file for processing.
2. Speed up search time

**Project Plan:**

**Sprint 1:  Design the search program - 2 days**

01. Class Design for the search program.

02. Setup Project and Git repository.

03. Implement code to process the input matrix data, sequence data and CLI.

04. Implement search program classes from design.

**Sprint 2: Create I/O for search program - 2 days**

05. Implement ordered search function.

06. Implement un-ordered search function.

07. Implement best match search function.

**Sprint 3: Implementation of search functions - 2 days**

08. Optimize the ordered search functions

**Sprint 4: Creating Test case and Reports - 2 days**

09. Create and implement the test cases for search program

10. Creating report on optimizing the search functionality and design of the project.

