**Project description:**

We want to create a program that stores student and lecturer information and displays on the screen or to file.

**Parts:**

1. Enter data – Hasrul, Shaun
2. Display data – Murtadha, Shaun
3. Output to file –Suhadah, Shaun
4. Create classes – Shaun (Person), Suhadah (Faculty), Hasrul (Lecturer), Murtadha (Student)

**Concepts used:**

* **String manipulation**
  + uses c++ string class
  + getline
* **Advanced file**
  + output to file
* **Intro to class**
  + constructors
  + use vectors to store objects
* **Class and object manipulation**
  + static members to count number of Student and Lecturer objects created
  + this pointer
* **Composition**
  + class Lecturer has a class Faculty
* **Inheritance**
  + class Student and class Lecturer inherits class Person