**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