

# 2XC3 Team Assignment

## Repository URL

<https://github.com/orgs/Sam-Scott-McMaster/teams/team-35-geek-squad/repositories>

## Team Members

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## Initial Ideas

1. Unit converter
  - This tool will allow the user to convert many different units of measurement. It can convert different prefixes of the metric system. It can convert from imperial to metric (and vice versa). It will be able to simplify a measurement into its simplest form (e.g. 1000m to 1kg).
2. A compiler for a programming language
  - This app will compile your code for Java. The user will be prompted to write their code in a text box and then this app will be able to complete it instantly, printing out the output.
3. File encryption tool
  - This tool will use numerous algorithms such as SHA256 to encrypt files, or even plain text. For passwords, it will encrypt based on a number of salting rounds and algorithm used to create a one-way string that will not be able to be reverse engineered.
4. A translation app for newcomers.

- This app will translate English to the desired language of the user.  
Furthermore, by typing in or taking a picture of English, it'll be able to convert the following text into the desired language of the newcomer.

We believe that we should make the app a command line tool (possibly multiple), because it would easily be able to be used and implemented for all the ideas above. We believe that creating multiple command line tools will not only more easily split the workload, but also allow for a bit of modularity in the production version of the application. However, this may end up being a bit confusing for the user using this tool.

## Roles

- Arian: Administrator
  - Submits completed work
  - Handles GitHub versioning
- Soham: Developer
  - Creates automated tests.
  - Debugging
- Naqeeb: Project Manager
  - Make sure work is done on time.
  - Coordinates meetings to work towards deadlines.
- Krish: Developer
  - Creates automated tests
  - Debugging