**Final Ruby project 4 - Text follow-up**

**We ended up with a final crud.rb file with our Crud module which looked like below (if not using repl, you can leave out the require bundler and bcrypt gem installation parts on top):**

* **require 'bundler/inline'**
* **gemfile true do**
* **source 'http://rubygems.org'**
* **gem 'bcrypt'**
* **end**
* **module Crud**
* **require 'bcrypt'**
* **puts "Module CRUD activated"**
* **def create\_hash\_digest(password)**
* **BCrypt::Password.create(password)**
* **end**
* **def verify\_hash\_digest(password)**
* **BCrypt::Password.new(password)**
* **end**
* **def create\_secure\_users(list\_of\_users)**
* **list\_of\_users.each do |user\_record|**
* **user\_record[:password] = create\_hash\_digest(user\_record[:password])**
* **end**
* **list\_of\_users**
* **end**
* **def authenticate\_user(username, password, list\_of\_users)**
* **list\_of\_users.each do |user\_record|**
* **if user\_record[:username] == username && verify\_hash\_digest(user\_record[:password]) == password**
* **return user\_record**
* **end**
* **end**
* **"Credentials were not correct"**
* **end**
* **end**

**Below was my student.rb class:**

* **require\_relative 'crud'**
* **class Student**
* **include Crud**
* **attr\_accessor :first\_name, :last\_name, :email, :username, :password**
* **def initialize(firstname, lastname, username, email, password)**
* **@first\_name = firstname**
* **@last\_name = lastname**
* **@username = username**
* **@email = email**
* **@password = password**
* **end**
* **def to\_s**
* **"First name: #{@first\_name}, Last name: #{@last\_name}, Username: #{@username},**
* **email address: #{@email}"**
* **end**
* **end**
* **mashrur = Student.new("Mashrur", "Hossain", "mashrur1", "mashrur@example.com",**
* **"password1")**
* **john = Student.new("John", "Doe", "john1", "john1@example.com",**
* **"password2")**
* **hashed\_password = mashrur.create\_hash\_digest(mashrur.password)**
* **puts hashed\_password**

**Congratulations on having completed section 2 and learning about the Ruby programming language! We will start with Ruby on Rails and web application development in the next section, see you there.**