Functionalities

* Generate Email address
  + Generate an email with the following syntax

[firstName.lastName@department.company.com](mailto:firstName.lastName@department.company.com)

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* First name and last name are user inputs
* Generate a random password
  + which will contain (number, capital letter, small letter & special character)
* Determine the department (Technical, Admin, Human Resource, Legal)
  + Dept code will be user input
    - 1 / 2 /3 / 4
* Compose credentials message
* Display the message

What all needs to be created

* **Employee**
  + First name
  + Last name
  + Department
  + Email address
  + Password
  + Parameterized constructor
    - First name
    - Last name
* **PasswordGenerator**
  + Logic to generate the random password
  + Hint
    - Form a string combining lowercase alphabets (a-z), uppercase alphabets(A-Z), numbers(0-9) and special characters
    - Reqt is to get 8 character password
    - Randomly pick 8 characters from the combined string which includes all characters
    - Need a random index to read one character from the combined string
      * Random class
        + Method is nextInt

From 0 to given max limit (length of the combined string)

If 100 is the max limit

Returns 0 to 99

* + Package -> com.greatlearning.javafsd.emailapp.service
  + PasswordGenerator class
    - generate() -> returns string
* **EmailAddressGenerator**
  + Logic to generate the email address
  + generate(String firstName, String lastName, int departmentCode)
    - Format of email address
      * <firstname>.<lastname>@<departmentName>.gl.com
    - departmentName
      * Got from getDepartmentName
  + getDepartmentName(int departmentCode)
    - when departmentCode is 1, return technical
    - when departmentCode is 2, return admin
    - when departmentCode is 3, return hr
    - when departmentCode is 4, return legal
* **ICredentialService**
  + Generate Email Address
  + Generate password
  + Display the credentials
* **CredentialServiceImpl**
  + Implementation for all methods
* **EmailApplicationUtils**
  + Move the code from getDepartmentName method in EmailAddressGenerator to this utility class
* **EmailApplication**
  + Entry to our application
    - User inputs
      * First name
      * Last name
      * Dept code
    - Call the code to generate email address and password
    - Call the code to display credentials
* Test code