FoondaMate Intern Software Engineer Coding Challenge-001

1.**Testing a business logic for CLI Application that is used to visualize the company's userbase growth**

- **Normal testing to visualize testing for a given start date and end date.**
  The program will take start and end date as parameters and called the method drawGraph that takes fetchData as a parameter. The fetchData method will first if the parameters are in correct format DD-MM-YYYY.

  It will try to connect to an API using requests.get method by passing an address as a parameter after it will get a data from and API as a text using .text then it converts to json format then loop through the data while checking if dates are within a given range if date out of range it deletes it the return filtered date.

  For drawGraph method it will take filtered data and convert it to list and then draws a label bar graph that represents the number of active users per given date.

- **Testing if date is given in wrong format**
  The fetchData method try and check if dates are in correct using strptime method that returns true if they are and if they are not, it will allow the user to re-enter the correct date again.

- **Testing if the program cannot connect to the API**
  If the program cannot to the API it will return an exception that it can't connect to the API maybe due to network or the API cannot be found, then exits.

- **Testing if given range in not found within a data**
  The drawGraph will check if the is a data from fetchData method then if there is no data it will return statement that no data is there to show.