FACULTY OF COMPUTERS AND INFROMATION,

CAIRO UNIVERSITY

**CS352: Software Engineering II**

**Year 2018-2019**

**Second Semester**

**Assignment 1 – Version 3.0**

**Course Instructors:**

Dr. Mohammed Al-Ramly

Revision History

**Version 1.0** By Dr Mohammed El-Ramly 20 Feb. 2018 Main Doc

**Version 2.0** By Dr Mohammed El-Ramly 12 Feb. 2019 Update for 2019

**Version 3.0** By Dr Mohammed El-Ramly 17 Feb. 2019 Corrections

**Program description:**

This program is intended to be entertainment software that is used to generate math facts about numbers, random facts about random numbers, enables one to view a search result from Bing and finally post the found article on Facebook; also our app could be used for educational purposes for one to learn more about beautiful numbers alongside writing documentations about anything related to math and numbers.

**Features:**

Our program main features are listed below:

1. Getting and interesting math fact about the number of choice.
2. Getting a random fact about a randomly generated number.
3. Getting a Bing search result of the generated fact.
4. Getting to post the result on Facebook provided login credentials.

**APIs used:**

Our Program uses the following services from the following apis:

1. GET: Get math fact, provider: <http://numbersapi.com/>
2. GET: Get random fact, provider: <http://numbersapi.com/>
3. GET: Search on a result, provider: https://developers.google.com/custom-search/v1/cse/list
4. NOT Yet Recorded
5. GET: Login, provide: https://developers.facebook.com/
6. POST: Put a post on timeline, provider: https://developers.facebook.com/

**Source files:**

1. project.html :

A file with html code to show basic elements, with links to bootstrap and jQuery (used for main content and style).

1. style.css:

A file that has basic styling added alongside bootstrap style.

1. scripts.js:

A file that contains behind the scene actions that makes everything works properly.

**Quick guide:**

To use our program you need to do the following simple steps:

1. Download the project.
2. Open project.html
3. You can either:
   1. Enter a number of your choice and click on “get a fact about number” to get a math fact.
   2. Click on “get a random number fact” to get a random number with a random fact.
4. A link should appear besides the fact, if you would like to get a result on Bing or post on Facebook.