# Candidate Evaluation Exercise

## Preface

We are asking you to develop a small standalone application to assess your skills and proficiency in developing software applications. It is expected that whatever you submit is your own code. You will be rated on comments embedded in the code or any other documentation, code cleanliness, algorithm efficiency, and stability. Please include a simple document explain your development process or approach. For this exercise you can use either Python, C# or Java.

## Assignment

**Your task is to create a standalone application that analyzes numbers for primality (Prime Number - a number that is divisible by itself and 1).**

## Application Specifications:

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| Specifications | Description |
| SS001 | The UI shall have an **Input** textbox to enter a number manually. |
| SS002 | The UI shall have a **Check** button to run the test for primality. |
| SS003 | The UI shall have a **Cancel** button that abandons the test(s) immediately. |
| SS004 | The UI shall have a scrollable **Report** on the screen. |
| SS005 | The UI shall have a **Save** button to save the report on the screen to a file. |
| SS006 | The report shall list the number and the primality.  **For example:**  “59 – PRIME”  “63 – COMPOSITE”. |
| SS007 | The UI shall have a menu option to load a series of numbers from a text file.  **Note**: the app should be responsive as it runs the test for each number. |
| SS008 | The test for primality may be implemented as a separate DLL from the GUI to allow the Primal code to be used in other front-end applications. |