Redington Code Mini Project

This mini project is your opportunity to show us your style and thought process. Please ensure you are able to talk about **how** and **why** you built the project in the way you did. While this is an artificially small project we are looking for good code practices.

Project Brief

Our consultants are looking for tool that will allow them to enter probabilities and carry out basic calculations. The program should also log each calculation for later analysis (**No** DB required, just log to a text file).

The calculator

The user should be able to enter two valid probabilities (0 to 1 e.g. 0.5 is valid while 1.1 or -0.1 is invalid). The user should be able to choose from the following functions:

1. CombinedWith: P(A)P(B) e.g. 0.5 * 0.5 = 0.25
2. Either:P(A) + P(B) - P(A)P(B) e.g. 0.5 + 0.5 − 0.5 * 0.5 = 0.75

What to build

1. Use a technology you feel comfortable with (Forms, API, JavaScript, etc.)
2. A way for users to enter two numbers and see a calculated result
3. A log that includes the date, type of calculation, the inputs and the result

What we want to see

1. Maintainable code that is easy to extend
2. The project contains some degree of tests

Be prepared to explain your choices.

What we do NOT want to see

1. Security
2. Database

Delivery

Please send us a zipped set of files or upload to GitHub and provide the link.