



Lab 1

You are required to implement and run the following program on Arduino:

- Program starts with a welcome message on serial monitor and asks the user to enter two bytes and an operator (+,-,*,/).
- Next the user is asked to choose a mode from two modes: **mode 0** (Blinking) and **mode 1** (Fading).
- In blinking mode the answer of the previous operation will be reflected as blinks on the on-board led. For example:
 - The two numbers are: 10 and 6 while the operator is –
 $10 - 6 = 4$, then the led should **blink 4 times**.
- In Fading mode the answer of the previous operation will be reflected as the led brightness connected on **pin 6** and printed to the serial monitor (both should be implemented). Makes sure to clip result [0,255]. For example:
 - The two numbers are: 100 and 3 while the operator is +
 $100 + 3 = 103$, then **analog output** on the led should be **103**.
 - The two numbers are: 100 and 3 while the operator is *
 $100 * 3 = 300$, then **analog output** on the led should be **255**.