# DSP Lab Demo 8 Exercise 1

## Difference equation

$$y(n) = x(n) + 0.8 \cdot x(n - N)$$

## Transfer function

$$H(z) = (z^N + 0.8)/z^N$$

## Impulse response expression

$$h(n) = \delta(n) + 0.8 \cdot \delta(n - N)$$