$$y[n] = x[n] - 2\cos(w_c) x[n-1] + x[n-2]$$
$$+ 2a\cos(w_c) y[n-1] - a^2 y[n-2] \Bigg)$$

$w_c = 0.85$ radians/sample

$$B = 0.001 \, \frac{\text{radians}}{\text{sample}} = -2\ln(a) \Big)$$

$$-0.0005 = \ln(a)$$
$$a = e^{-0.0005}$$

$$y[n] = x[n] - 2\cos(0.85) x[n-1] + x[n-2]$$
$$+ 2 e^{-0.0005} \cos(0.85) y[n-1] - e^{-0.001} y[n-2]$$