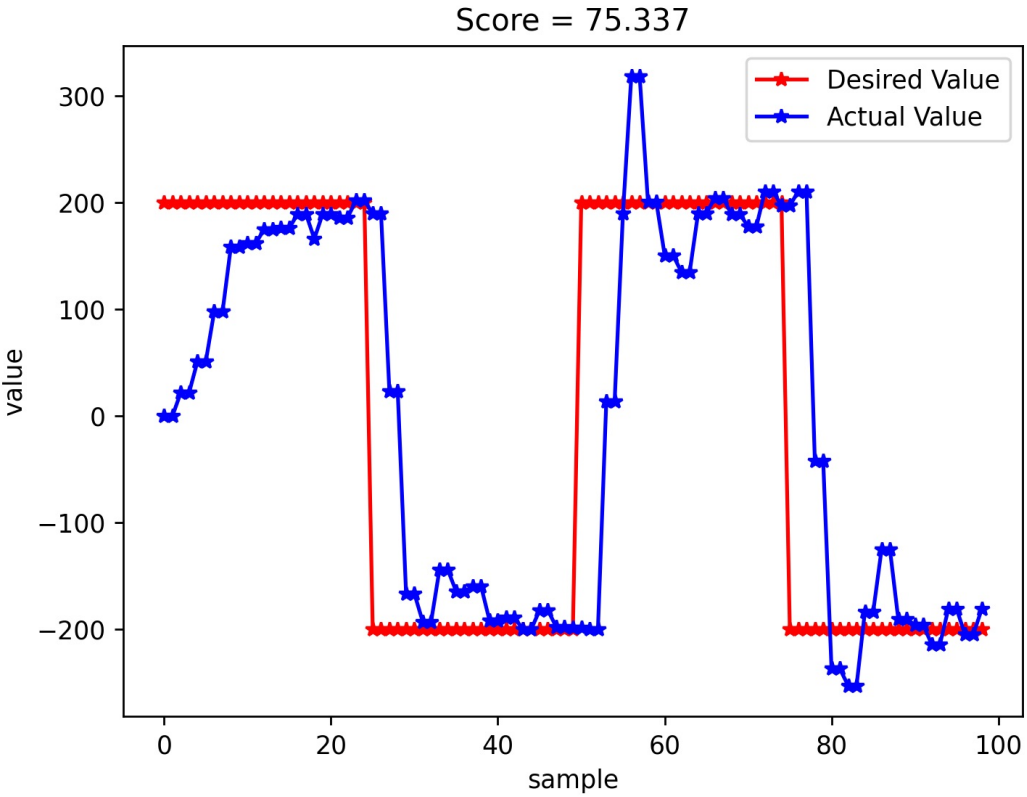
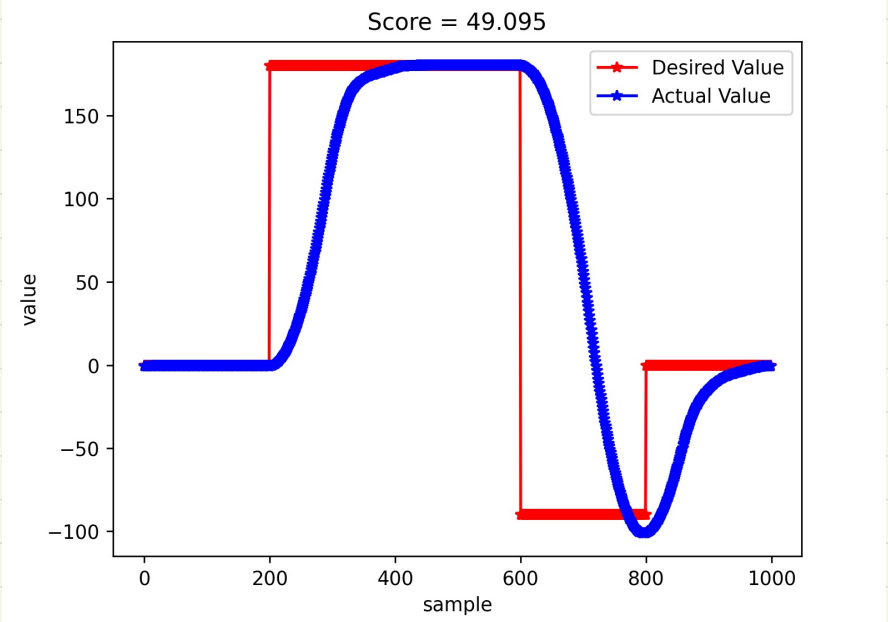


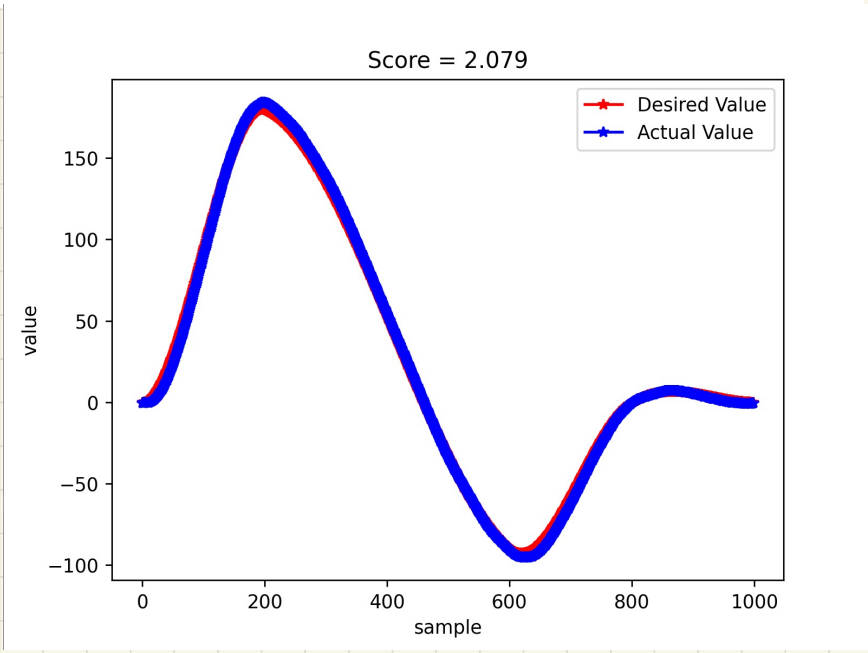
$K_p = 0.0016$, $K_i = 0.664$ $E_{int_{max}} = 2000$

Eqs: $U = k_p \cdot E + k_i \cdot E_{int}$, $E_{int} \mathrel{+}= E$

[PWM] = [ ][mA] + [?][mA] [mA] [mA] Note: No dT used

$k_p = \left[\frac{PWM\%}{mA}\right]$, $k_i = \left[\frac{PWM\%}{mA}\right]$, $E_{int_{max}} = [mA]$





$K_p = 180,\ K_i = 0.1,\ K_d = 7000,\ E_{int\,max} = 500$

Eqs: $U = k_p \cdot E + k_i \cdot E_{int} + k_d(E - E_{prev}),\ E_{int} \mathrel{+}= E$

$[mA] = [?][deg] + [?][deg]\ [?]\ [deg]\ ,\ [deg]\ [deg]$

$k_p = \left[\frac{mA}{deg}\right],\ k_i = \left[\frac{mA}{deg}\right],\ k_d = \left[\frac{mA}{deg}\right],\ E_{int_{max}} = [deg]$