Start of ADC interrupt service routine

Clarke Transform to obtain i_α, i_β from i_a, i_b, i_c

Park Transform to obtain i_d, i_q from i_α, i_β

Calculate PI controllers' output to obtain V_d, V_q

Measure electrical position (θ_e)

Inverse park transform to obtain V_α, V_β from V_d, V_q

Space Vector Modulation to obtain PWM duty cycles

Calculate mechanical speed (ω_m) and I_{qref} after every discrete (x) PWM cycles

End of ADC interrupt service routine