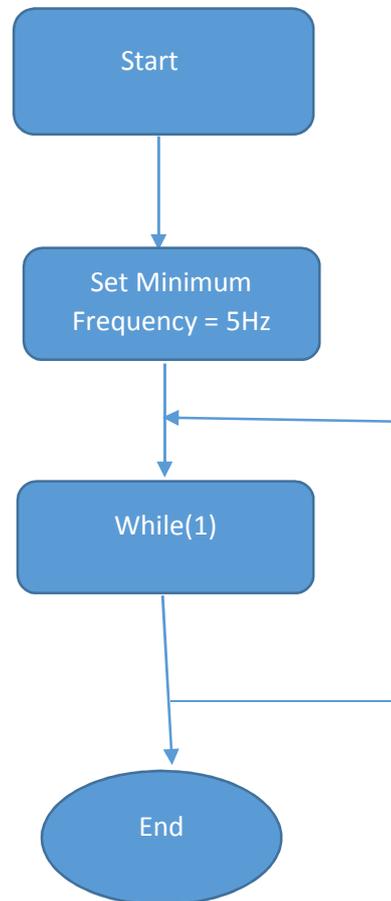


## Control of 3 phase BLDC motor using sine PWM

### Closed Loop V/f Control method:

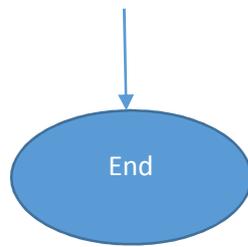


### PWM interrupt

Settings: 20Khz



- 1, Read New Frequency Value.
- 2, Access the Phase 1 Sine look up table based on Frequency into variable sine1.
- 3, Access the Phase2 Sine look up table 120 degrees w.r.t Phase 1 into variable sine2
- 4, Access the Phase3 Sine look up table value 120 degrees w.r.t Phase 2 into variable sine3
- 5, multiply sine1 with frequency = Duty\_phase1
- 6, multiply sine2 with frequency = Duty\_Phase2
- 7, multiply sine3 with frequency = Duty\_Phase3
- 8, Load Duty\_phase1, duty\_phase2, duty\_phase3 into pdc1, pdc2, pdc3.



**Input Capture Speed Measurement**

