Code Schematic for a 1kHz Sawtooth Wave

```
                        START
                          |
                          v
                  +-----------------+
                  |   Initialize    |
                  | u8SlopeState=0  |
                  +-----------------+
                          |
                          v
                  < u8SlopeState=0 >  --YES-->  < DAC=255 >
                          |                          |
                         NO                         YES
                          |                          v
                          v                  +----------------+
                     < DAC = 17 >            | u8SlopeState=1 | --> | Add 1 to DAC |
                          |
          YES             NO
           |               |
           v               v
  +----------------+   +----------------------+
  | u8SlopeState=0 |-->| Subtract 1 from DAC  |
  +----------------+   +----------------------+
                          |
                          v
                     +----------+
                     | Wait 2 µS |
                     +----------+
```
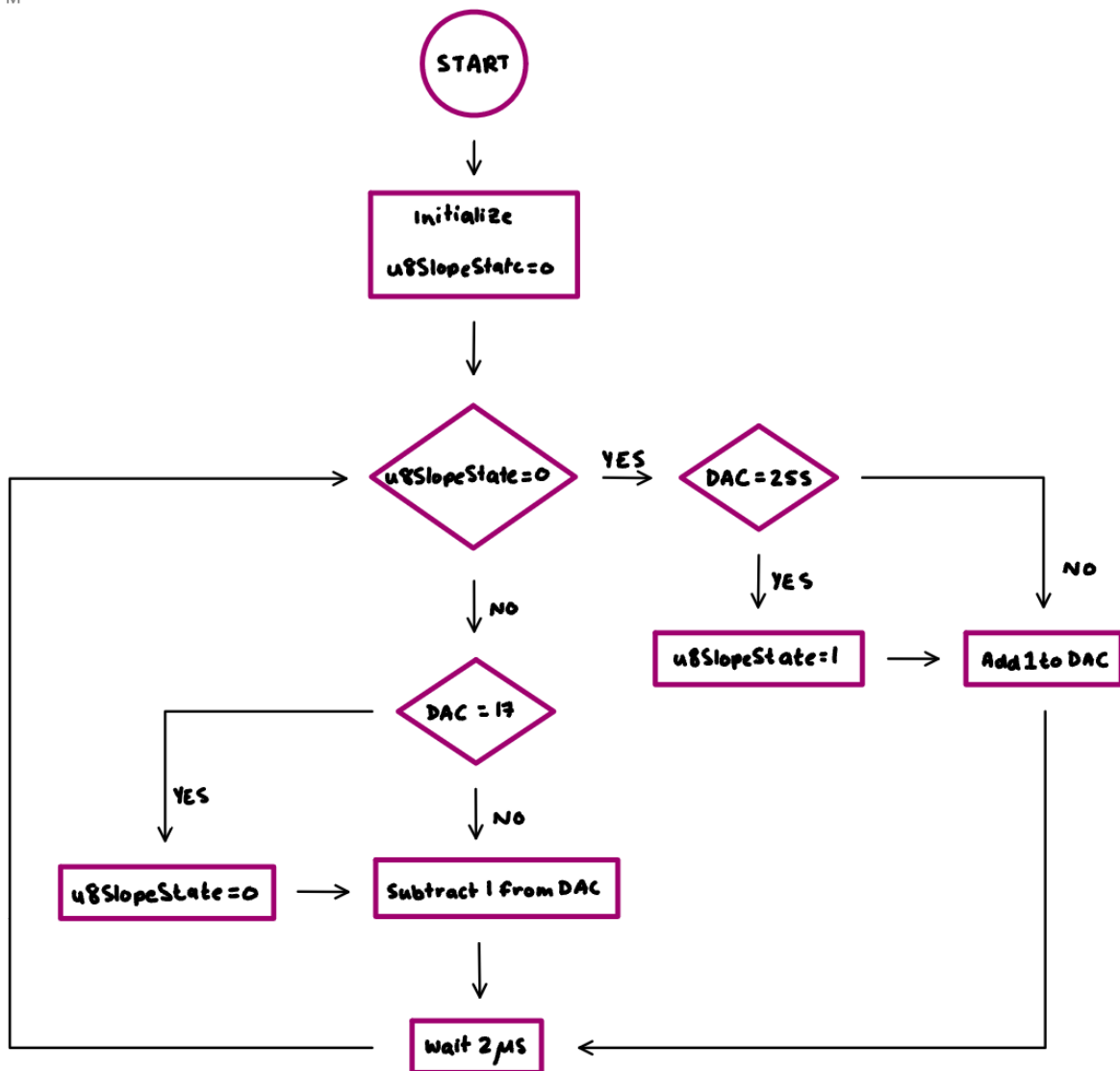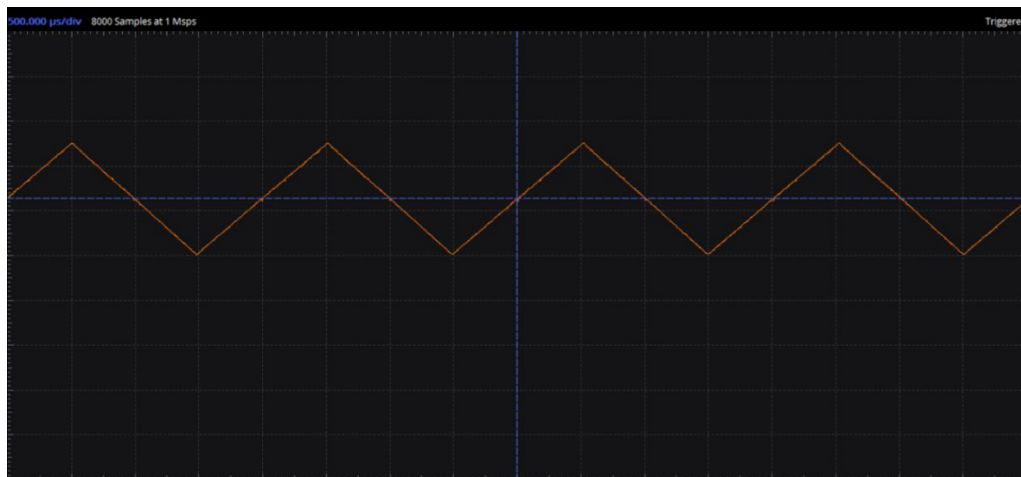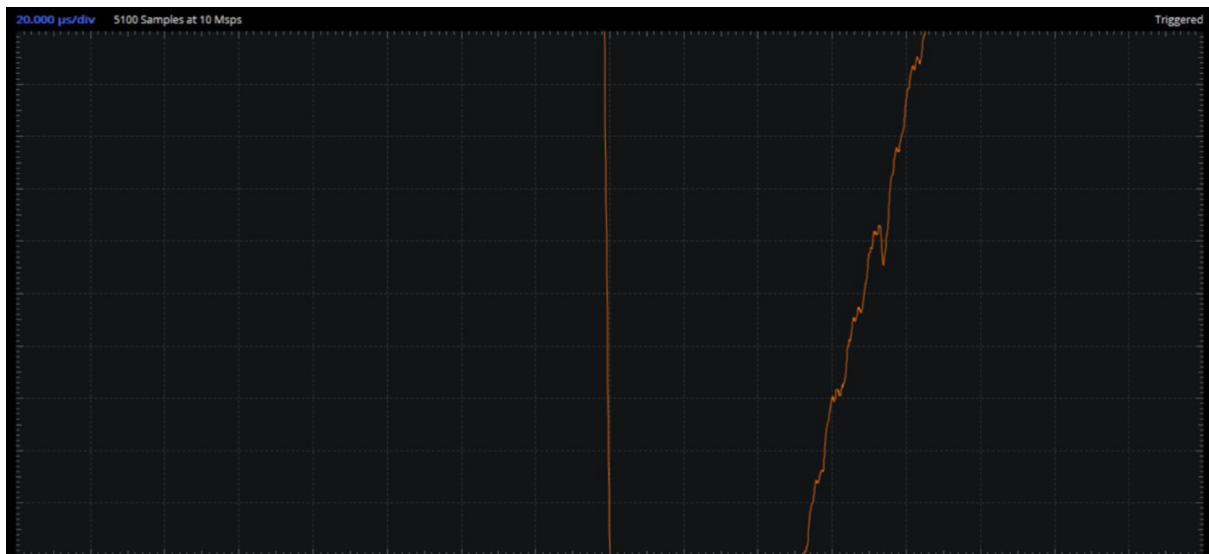
Triangle Wave Output

4x Increase in Speed Output

Sinusoid Output

Sinusoid close to 1kHz Output