Demo LimiFrog / ST – V0.1

Turn LimiFrog ON : push button near corner for 1/2s
Turn LimiFrog OFF : push button near corner
Hard Power down: psuh button near corner for 10s

1) Step1: Splash Screen = LimiFrog Logo
 "Free" the frog by putting hand in front of VL6180X detecttor
  Frog can be moved by tilting LimiFrog
 (challenge: try to keep it centered !)

Then next step of demo is triggered by Microphone noise detection :
lightly tap on the bottom right corner of LimiFrog (just below the screen)
...or clap your hands
...or "click" your tongue

2) Step2: Carroussel of pictures
Select previous or next picture by tilting LimiFrog
Stop on current picture by keeping LimiFrog horizontal

<Next step: light tap or noise>

3) Step3: Real-time display of graph with accelerometer XYZ axis values

<Next step: light tap or noise>

4) Step 4 : Time-domain and FFT display of magnetomer values
- Capture sequence of magnetomer values,
  at fairly slow rate (20Hz) so user can modify orientation at speed meaningful vs capture rate
- At the end of sequence, display FFT of values captured on Z axis
  ==> if user swings LimiFrog around Z-axis regularly during capture, swing frequency shows up on FFT
Note: uncalibrated magnetometer values are used. Not an issue here as only affects DC Value of FFT.

<Next step: light tap or noise>

5) Step 5: VL6180X demo
Detects distance of hand or object up to 20cm
Might need some tuning due to interference of case

<Next step: light tap or noise>

6) Step 6: LPS25H demo
Display measured atmospheric pressure

<Next step: light tap or noise>

Then Back to start (Splash Screen)