# Lab 7- Grove Kit Light Sensor, Gesture Sensor and Speaker

#### Exercise 1:

Code:

```
basic.forever(function () {
    led.plotBarGraph(
    pins.analogReadPin(AnalogPin.P0),
    4    300
    5    )
    6 })
    7
forever

plot bar graph of analog read pin P0 \( \)

up to 300

7
```

Video Demo: <a href="https://drive.google.com/file/d/1AcFgudQ5">https://drive.google.com/file/d/1AcFgudQ5</a> qc3nDtn3uftr4DVeojmR6IE/view?usp=sharing <a href="https://drive.google.com/file/d/1t6UjpSKGtTwoBEUpBgEL8ZQ8UBd2">https://drive.google.com/file/d/1t6UjpSKGtTwoBEUpBgEL8ZQ8UBd2</a> V3G/view?usp=sharing

#### **Exercise 2:**

Code:

```
1 grove.onGesture(GroveGesture.Clockwise, function () {
2
       basic.showLeds(`
3
          # # # # #
           # # # # #
4
5
           # # # # #
           # # # # #
6
7
           # # # # #
           `)
8
9 })
10 grove.onGesture(GroveGesture.Anticlockwise, function () {
       basic.showLeds(`
11
12
13
14
15
16
17
18 })
19
```

Video Demo: <a href="https://drive.google.com/file/d/1PDIIzVw5Zlip4tqJkOaTmOUopikMVLiT/view?usp=sharing">https://drive.google.com/file/d/1PDIIzVw5Zlip4tqJkOaTmOUopikMVLiT/view?usp=sharing</a>

### **Exercise 3:**

Code:

```
forever

If ctr_cloclestse • and • ctr_onticloclestse • then

Set ctr_cloclestse • to true •

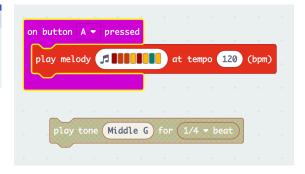
Set ctr_cloclestse • to true •
```

Video Demo: https://drive.google.com/file/d/198RHy5G2gjbH\_0Q7J0lj4DnifPTworRe/view?usp=sharing

## **Exercise 4:**

Code:

```
input.onButtonPressed(Button.A, function () {
    music.playMelody("C5 B B A C5 A F A ", 120)
    })
}
```



Video Demo: https://drive.google.com/file/d/1vmqjCrWrnRsYtFgZYETnHfP\_12ybzjAM/view?usp=sharing