Al**go**Hack **micro:bit**

GESTURE SENSING

Authors

Niranjan Meegammana

N P Vishva Kumara

AlgoHack aims to teach Computer Science and Programing to young people, initiated by Shilpa Sayura Foundation, supported by GOOGLE RISE and Computer Society of Sri Lanka.

Gestures are motions obtained from Accelerometer

Shaking, tilting and flipping are some gestures..

We can use these gestures for simple input and react accordingly. The Accelerometer inputs are simplyfied with gestures.
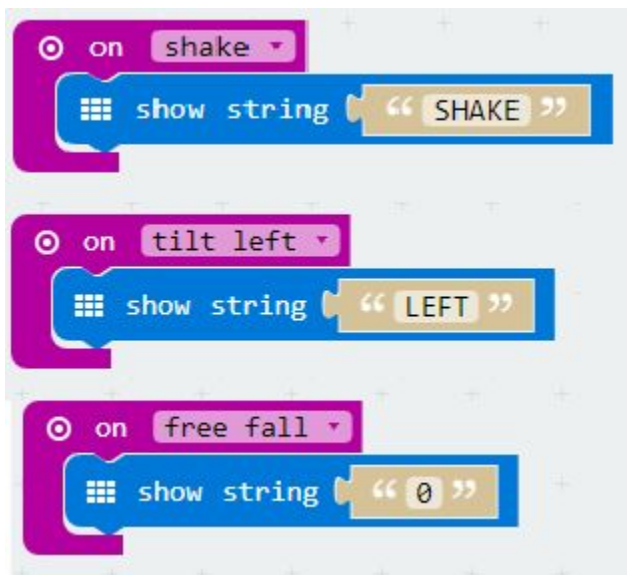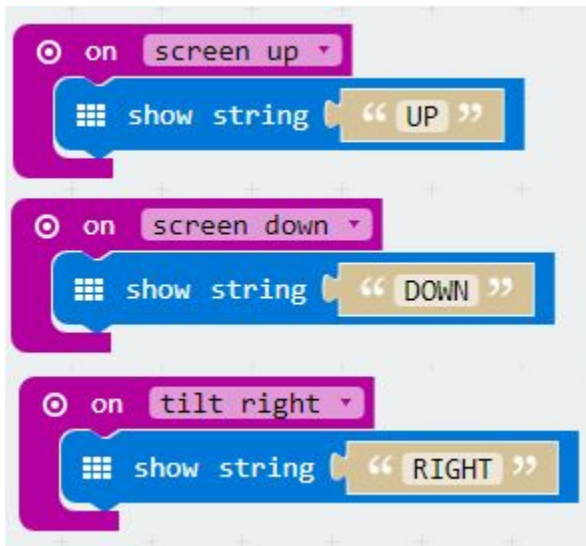
Gestures blocks are in Input menu

Our first test is to see if the accelerometer has been tilted upwards.

The output from this test is either True or False.

```
input.onGesture(Gesture.ScreenUp, () => {
        basic.showString("UP")
})
```

```
on screen up ▾
    show string " UP "
```

```
on screen down ▾
    show string " DOWN "
```

```
on tilt right ▾
    show string " RIGHT "
```

```
on shake ▾
    show string " SHAKE "
```

```
on tilt left ▾
    show string " LEFT "
```

```
on free fall ▾
    show string " 0 "
```

```
input.onGesture(Gesture.ScreenUp, () => {
    basic.showString("UP")
})

input.onGesture(Gesture.Shake, () => {
    basic.showString("SHAKE")
})

input.onGesture(Gesture.ScreenDown, () => {
    basic.showString("DOWN")
})

input.onGesture(Gesture.TiltLeft, () => {
    basic.showString("LEFT")
})

input.onGesture(Gesture.TiltRight, () => {
    basic.showString("RIGHT")
})

input.onGesture(Gesture.FreeFall, () => {
    basic.showString("0")
})
```

Start by tipping the micro:bit forwards, backwards and side to side. Last, shake the micro:bit to test the shake gesture.

කැමති විෂය
කැමති වෙලාවක
කැමති තැනක
නිදහසේ ඉගන ගන්න
පාඩම් සහ ප්‍රශ්න

Shilpa64.lk

AlgoHack aims to teach Computer Science and Programing to young people, initiated by Shilpa Sayura Foundation, supported by GOOGLE RISE and Computer Society of Sri Lanka.

AlgoHack micro:bit