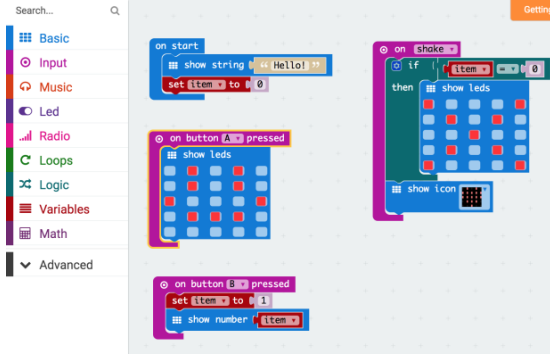
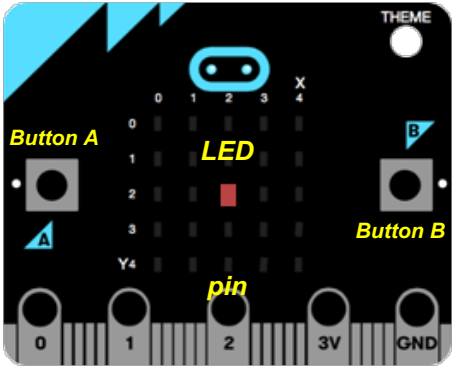


# Setup





- Search...
- Basic
  - Input
  - Music
  - Led
  - Radio
  - Loops
  - Logic
  - Variables
  - Math
  - Advanced

Select the code block to program

Download the code to local machine and then it can be copied to microbit through USB cable

 **Download**

Will be triggered when start microbit

Show string value on LED

Will be triggered when shake microbit

Logic condition

set variable "item" value. The name can be changed

Handle the condition logics

Show LED as setup

Will be triggered when push button B

Show the variable "item" value on LED

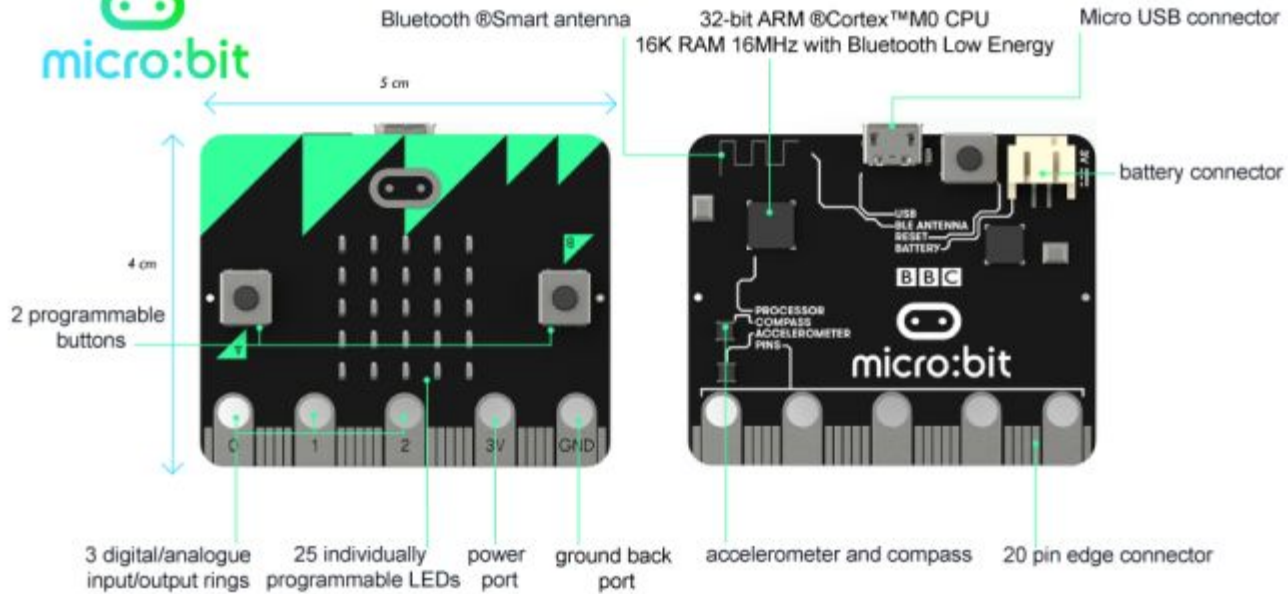
Show the selected icon on LED

```
on start
  show string "Hello!"
  set item to 0

on shake
  if item = 0
    then
      show leds
  show icon [grid icon]

on button A pressed
  show leds

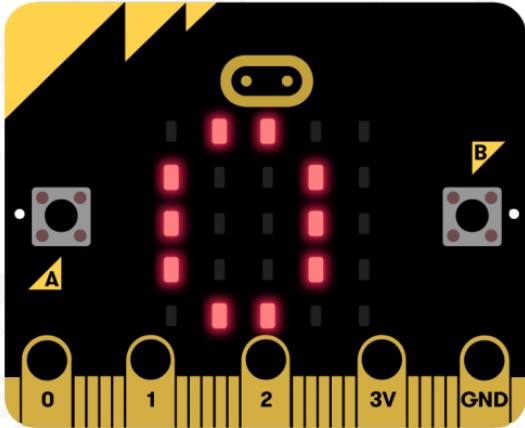
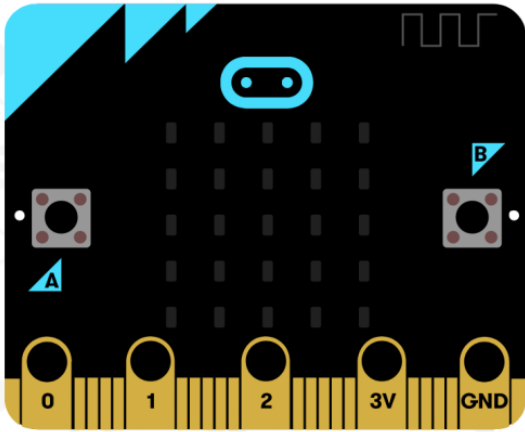
on button B pressed
  set item to 1
  show number item
```



**FRONT**

**BACK**

# Send and Receive Radio



Search...

- Basic
- Input
- Music
- Led
- Radio
- Loops
- Logic
- Variables
- Math
- Advanced

Code blocks of handling radio communication

Setup the channel of radio communication

```
on start
  radio set group 1
```

```
on button A pressed
  radio send number 10
```

Send number "10" through radio

Triggered when receive the radio signal

```
on radio received receivedNumber
  show number receivedNumber
```

# A Solution

```
on shake
  set players to create array with 0
  set weapon to pick random 0 to 2
```

```
on radio received receivedNumber serial
  set match to weapon == receivedNumber
  set player_index to players find index of serial
  set found to player_index >= 0
  if match and not found
    then players add value serial to end
  if not match and found
    then set temp to players remove value at player_index
```

```
forever
  radio send number weapon
  if weapon == 0
    then show icon [Rock icon]
  else if weapon == 1
    then show icon [Paper icon]
  else
    show icon [Scissors icon]
  show number length of array players
```

```
on start
  set players to create array with 0
  radio set group 10
  radio set transmit serial number true
```