Project 1  Mini Fan

Connection Diagram

Note: External power supply needed
Project 1  Mini Fan

Blocks Editor Sample Program

```
forever
    if digital read pin P1 = 1 then
        show icon
        digital write pin P0 to 1
    else
        show icon
        digital write pin P0 to 0
```
Project 2 Automatic Door

Connection Diagram

Note: External power supply needed
Blocks Editor Sample Program

```
forever
  if digital read pin P1 <> 1 then
    servo write pin P0 to 0
    show icon
    pause (ms) 2000
    show icon
  else
    servo write pin P0 to 120
```

Advanced
Functions
Arrays
Text
Game
Images
Pins
Serial
Control
Extensions
BOSON  Project 3  Sound Activated Music Player

Connection Diagram

* Only support micro:bit V2 with sound (or use MakeCode simulator instead)

Note: External power supply needed
Blocks Editor Sample Program

- **Basic**
- **Input**
- **Music**
- **Led**
- **Radio**
- **Loops**
- **Logic**
- **Variables**
- **Math**
- **Neopixel**

**Forever**

**if** analog read pin P1 ≥ 100 then

- **start melody** ringtone repeating once
- **pause (ms)** 3000
- **show icon**

Playing around with this value gives a better result!
Project 4  Rainbow Light

Connection Diagram

Note: External power supply needed
Click “Extensions“ then select neopixel to add RGB LED support to your micro:bit.
Project 5  Digital Pocket Pet

✿ Connection Diagram

Note: External power supply needed
Click "Extensions" then select neopixel to add RGB LED support to your micro:bit