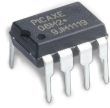


PICAXE BASICS



SWITCH Digital input ON/OFF

Syntax if pin3 = 1 or 0 then ...

```
Code      Main:
          if pin3 = 0 then gosub noise
          nap 3
          goto main

          noise:
          tune 0,1,(1,2,3)
          pause 500
          return
```

Explained

- **Pin 3** is the **digital input pin**
- The Switch can have a **default** off/low or on/high (**0 or 1**)
- **gosub** (go to subroutine) sends the program to the subroutine label 'noise:' At the end of the subroutine It then **returns** to back up to the next line of code.
- **Nap** puts the pickaxe in a low energy state.

Notes

- The Circuit must have a **pulldown** or **pullup resistor**. The resistor links **pin3** to **positive (pullup)** or to **Negative (pulldown)**. It stops the voltage **floating** between on and off **logic levels**. That is... At what voltage is the pin said to be on of off.

Tinker

Change the noise...

Circuit

