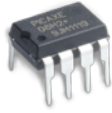


PICAXE BASICS



FOR NEXT LOOP, Sound

Make a particular number of Loops using Variable "b1"

Syntax:

```
FOR variable = start TO end STEP increment  
(do something)  
NEXT variable
```

Code

```
theLoop:  
for b1 = 50 to 125 step 2  
sound 2, (b1, 10)  
next b1  
goto theLoop
```

Explained

- **For Next Loop** gives Variable b1 a value of 50 through to 125 in steps of 2, each time through the **for next loop**.
- **Sound** command pin2, note = value of b1, length 10 milliseconds (1000ths).
- **Next b1** go to beginning of For Next Loop and increase current value of b1 by step 2. When b1 reaches 125 the program exits the **for next loop**.
- **goto** label "theLoop:".

Tinker

- 1 Change the range of b1 variable
- 2 Change the steps, try "for b1 = 125 to 50 step -2 "
- 3 Use Variable b1 to change the length of the Note instead of the pitch
- 4 Make sounds and also Blink an LED using the **High, Low** commands

Notes

- 1 You can put a for loop inside a for loop

Circuit

