

Python Basics

debug python

linux

idle

idle <https://en.wikipedia.org/wiki/IDLE>

PUDB debug

- Doku <https://documen.tician.de/pudb/>
- Install pudb debug

```
• sudo pip install pudb
```

- identity tty ID:

```
tty
```

- call

```
PUDB_TTY=/dev/pts/0 pudb sensor.py
```

- batch file

```
•  
  pudebug  
  PUBTTY=`tty` echo "puDB- start in dir with source files"  
  echo "Call with name of file to be debugged"  
  echo "Call in window used for debugging"  
  PUDB_TTY=`tty` pudb $1
```

puDB commands

```
n – step over (“next”)  
s – step into  
c – continue  
r/f – finish current function  
t – run to cursor  
o – show console/output screen  
b – toggle breakpoint  
m – open module  
! – Jump into interactive shell (most useful)  
/ – text search
```

Online Manual

Python 2.7 <https://docs.python.org/2/>

Python 3 <https://docs.python.org/3/>

Tutorial

<http://www.tutorialspoint.com/python>

Examples

Case Statement

```
def gpio_OK(): return (True)

def gpio_ground(): return (-1)

def gpio_3v(): return (3)

def gpio_5v(): return (5)

def gpio_I2C(): return (10)

gpio_board= {
    1: gpio_3v, 2: gpio_5v,
    3: gpio_OK, 4: gpio_5v,
    5: gpio_OK, 6: gpio_ground,
    7: gpio_OK, 8 :gpio_OK,
    9 : gpio_ground, 10: gpio_OK,
    11: gpio_OK, 12: gpio_OK,
    13: gpio_OK, 14: gpio_ground,
    15: gpio_OK, 16: gpio_OK,
    17: gpio_3v, 18: gpio_OK,
    19: gpio_OK, 20: gpio_ground,
    21: gpio_OK, 22: gpio_OK,
    23: gpio_OK, 24: gpio_OK,
    25: gpio_ground, 26: gpio_OK,
    27: gpio_I2C, 28: gpio_I2C,
    29: gpio_OK, 30: gpio_ground,
    31: gpio_OK, 35: gpio_OK,
    33: gpio_OK, 34: gpio_ground,
    35: gpio_OK, 36: gpio_OK,
    37: gpio_OK, 38: gpio_OK,
    39: gpio_ground, 40: gpio_OK
}
```

```
gpio_board[2]()
```

From:

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Last update: **2022/01/09 14:41**

