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]()
```

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