Pi-topPROTO+

Raspberry Pi GPIO BCM numbering

Pictures from pi-top.com and pinout.xyz.
Using the analogue pins of the pi-topPROTO+ board

Installation
On pi-topOS, the library for using the analogue pins of the pi-topPROTO+ board are installed automatically. On Raspbian Stretch, install the library with the following command:

```bash
sudo apt install python3-pt-inventor
```

The library is installed at `/usr/lib/python3/dist-packages/ptinventor`.

Library functions
Use the following at the beginning of your python script:

```python
from ptinventor import adc
adc = adc.ADCProbe()
```

The following functions are available:

- `readvalue(channel)`
  - read the current value of one adc channel. Channel can be between 0 and 5)

- `result = read_all()`
  - returns a list of the values of the 6 analogue pins (result[0] to result[5]).

- `poll(delay = s)`
  - print values of all 6 analogue pins every s seconds (default 0.5 seconds)

Examples
```python
from ptinventor import adc
adc = adc.ADCProbe()
# access value of one analogue pin
print("Value of analogue pin 0: ", adc.read_value(0))
print()
# access value of all analogue pins
result = adc.read_all()
for i in range(0,6):
    print("Value of analogue pin ", i,": ", result[i])
print()
# Print table of all analogue pins
adc.poll (delay = 2)
```