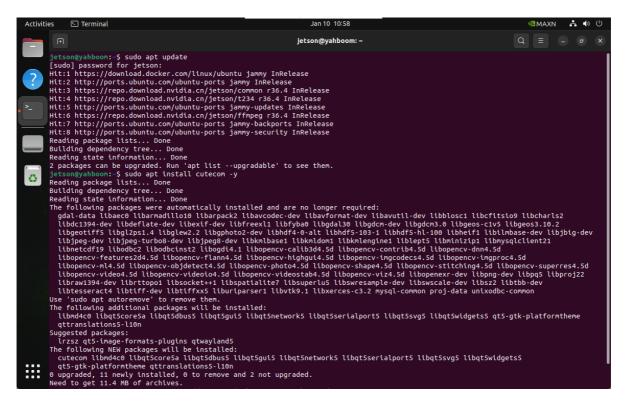# Serial communication

1. GPIO pin diagram

GPIO.BOARD pin 8 corresponds to GPIO.BCM 14, GPIO.BOARD pin 10 corresponds to GPIO.BCM 15:

2. Serial port test

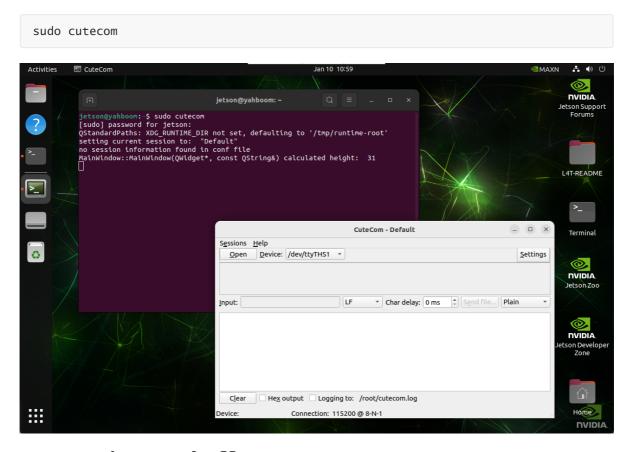## 2.1. Install cutecom

```
sudo apt update
sudo apt install cutecom -y
```

2.2. Use cutecom

Start `cutecom` in the terminal:

```
sudo cutecom
```


3. Experimental effect

Use a jumper cap or Dupont line to short-circuit GPIO.BOARD 8 and GPIO.BOARD 10 pins.

Use `cutecom` to open the `/dev/ttyTHS1` serial port number: Enter the data to be sent by the serial port in `Input`, the upper window displays the data sent by the `/dev/ttyTHS1` serial port, and the lower window displays the data received by `/dev/ttyTHS1`:

Note: Do not connect incorrectly or cause the pins to short-circuit, as mistakes may cause damage to the motherboard hardware!