Sensors

detect & measure physical property
either records or responds to it by transmitting an impulse

classification

- active - requires external power source to operate
  GPS & radar
- passive - do not require external power source
  thermal sensors

contact &
non-contact

absolute &
relative

analog &
digital

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connecting both analog & digital sensor &
reading value

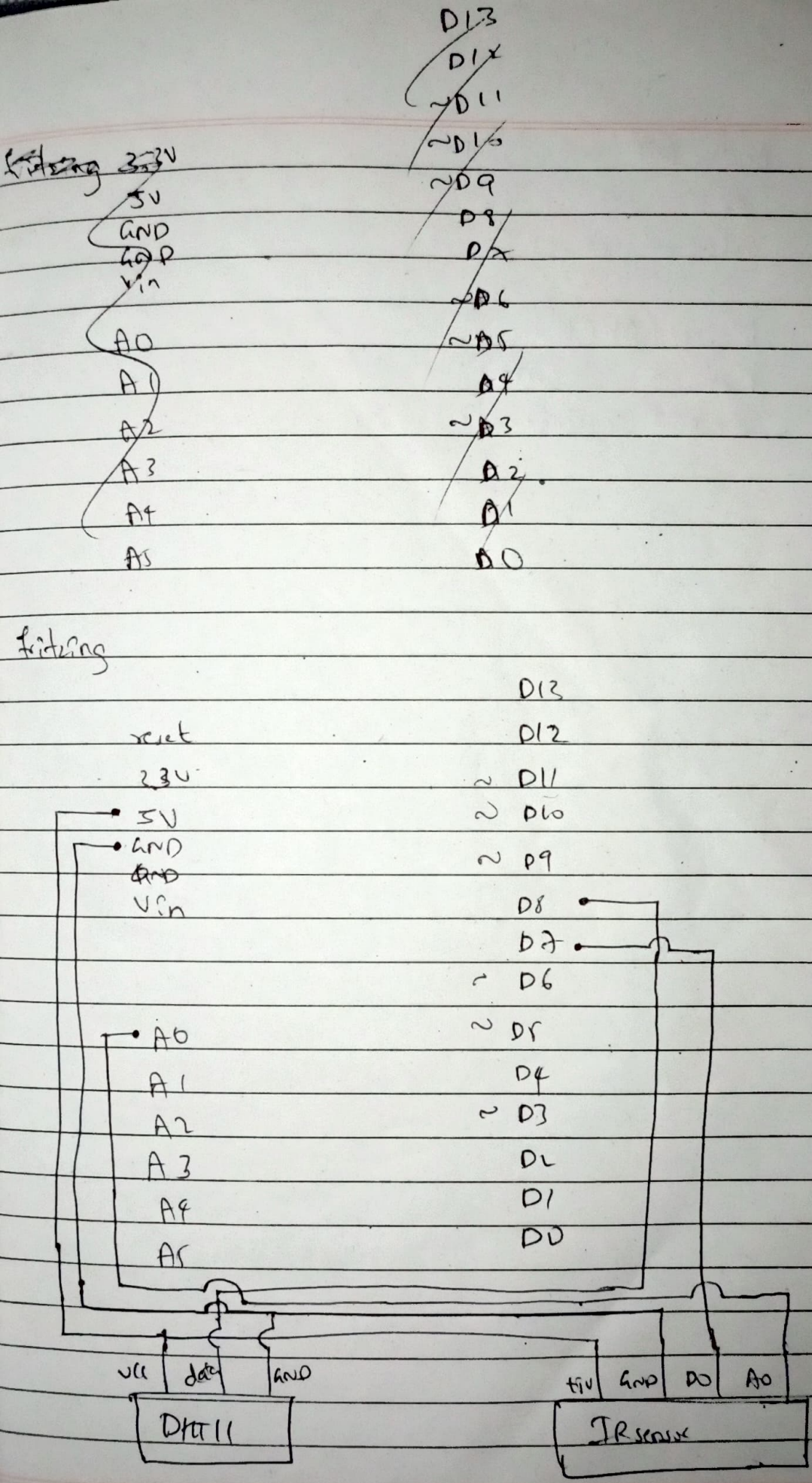
Analog → DHT11
Digital → IR sensor

pinout DHT11

DHT11	Arduino pins
VCC	+5V
Data	8
GND	GND

IR sensor

IR sensor	Arduino pin
+5V	+5V
GND	GND
DO	7
AO	A0


D13
D12
~D11
~D10
~D9
D8
D7
~D6
~D5
D4
~D3
D2
D1
D0
fitting 3.3V
5V
GND
GND
Vin
A0
A1
A2
A3
A4
A5
fitting
reset
3.3V
5V
GND
GND
Vin
D13
D12
~ D11
~ D10
~ D9
D8
D7
~ D6
~ D5
D4
~ D3
D2
D1
D0
A0
A1
A2
A3
A4
A5
vcc
data
GND
DHT11
5V
GND
DO
AO
IR sensor

O/p Analog (IR sensor)

analog value : 346

digital value : 1

Digital (DHT11)

Humidity : 72.00

~~Default~~ Temperature : 27.00°C