

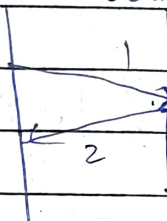
# Assignment

To illustrate CoAP message packaging for each scenario with responses.

1. To set the temp. to 30°C at Basement

(i) Piggyback

Client Server

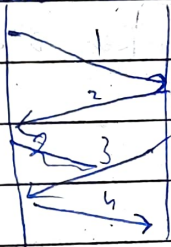


1) Con[id] PUT / Basement store / temp 30°C.  
token: 0xA1

2) Ack[id] temp. changed token

(ii) Separate response

Client Server



1) Con[id] PUT / Basement store / temp 30°C.  
token: 0xA2

2) Ack[id]

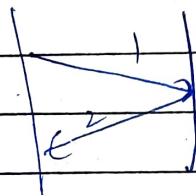
3) Con[new-id] temp change token: 0xA2

4) Ack[new-id]

2. To create a new resource for humidity testing at the Kitchen

(i) Piggyback

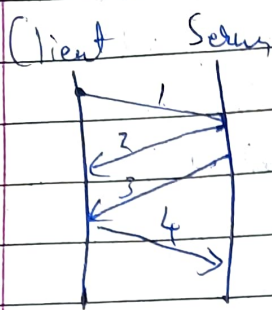
Client Server



1) Con[id] Post / Kitchen / humidity  
Payload {test: true}  
token: 0x8,  
token: 0x8B,

2) Ack[id] created

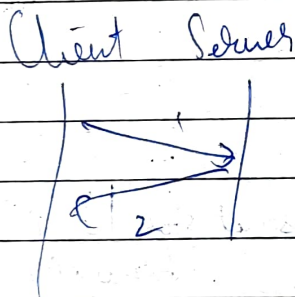
## ii) Separate



- 1)  $CON[id]$  POST / kitchen / humidity  
Payload: {test: true}  
token:  $0 \times B_2$
- 2)  $ACK[id]$
- 3)  $CON[new-id]$  Created token  $0 \times B_2$
- 4)  $ACK[new-id]$

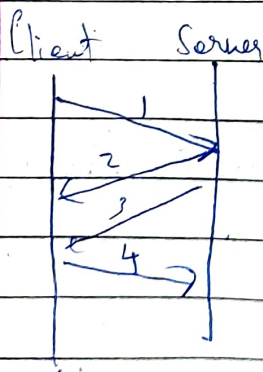
## 3) To delete the cleaning process at the Hall

### (i) Piggyback



- 1)  $CON[id]$  DELETE hall / cleaning  
token  $0 \times C_1$
- 2)  $ACK[id]$  Deleted token:  $0 \times C_1$

### (ii) Separate



- 1)  $CON[id]$  DELETE hall / cleaning  
token:  $0 \times C_1$
- 2)  $ACK[id]$
- 3)  $CON[new-id]$  Deleted token:  $0 \times C_1$
- 4)  $ACK[new-id]$