############# New Files added ################################

|  |  |  |
| --- | --- | --- |
| **SNO** | **Files added** | **Remarks** |
|  | **config.json** | provides devices to be configured |
|  | **TOPICS\_DESCRIPTION** | Details about all topics created |
|  | **Test\_Question1.py** | Tests only question 1 device registration |
|  | **Test\_Question1\_logs** | logs for testing question1 |
|  | **Test\_Question2a** | 1. Tests question 2a getting status of devices 2. Search for "**Question 2a getting status on basis of**" 3. Contains Question 1 code too |
|  | **Test\_Question2a\_logs** | 1. logs for testing 2a 2. Search for "**Question 2a getting status on basis of “** as initially contains Question1 test logs too |
|  | **Test\_Question2b** | 1. Tests question 2b switching ON/OFF 2. Search for " **Question 2b SWITCHING ON/OFF of**" 3. Contains Question 1 test code too 4. Gets status too at end using topic “device/**ALL**/STATUS” 5. SWITCH COMMAND on basis of ALL home devices not logged. Code piece included but commented |
|  | **Test\_Question2b\_logs** | 1. logs for testing 2b 2. Search for " **Question 2b SWITCHING ON/OFF of “** as initially contains Question1 test logs too |
|  | **Test\_Question3a** | 1. Tests question 3a LIGHT INTENSITY COMMAND 2. Search for " **Question 3a LIGHT INTENSITY COMMAND on basis of**" 3. Contains Question 1 test code too 4. Gets status too at end using topic “device/ LIGHT/STATUS” 5. LIGHT INTENSITY COMMAND on basis of ALL home devices not logged. Code piece included but commented |
|  | **Test\_Question3a\_logs** | 1. logs for testing 3a 2. Search for "**Question 3a LIGHT INTENSITY COMMAND on basis of “** as initially contains Question1 test logs too |
|  | **Test\_Question3b** | 1. Tests question 3b AC TEMPERATURE CONTROL 2. Search for " **Question 3b AC TEMPERATURE CONTROL COMMAND on basis of**" 3. Contains Question 1 code too 4. Gets status too at end using topic “device/ AC/STATUS” 5. AC TEMPERATURE CONTROLCOMMAND on basis of ALL home devices not logged. Code piece included but commented |
|  | **Test\_Question3b\_logs** | 1. logs for testing 3b 2. Search for " **Question 3b AC TEMPERATURE CONTROL COMMAND on basis of “** as initially contains Question1 test logs too |
|  | **Main\_test\_consolidated\_logs** | Test log for Main.py (consolidated logs of below files) |

**Description of following functions:**

1. **def get\_status(self,key,value):** key indicates on what basis status is requested . Example below

|  |  |
| --- | --- |
| **key** | **value** |
| device\_id | LIGHT\_0, AC\_0 |
| Device\_type | LIGHT, AC |
| Room\_type | KITCHEN, BR1 |
| ALL (for all home devices) | ALL |

**edge\_server\_1.get\_status("device\_id","LIGHT\_0")**

1. **def switch\_command(self, key, value,command)**  : key indicates on what basis status is requested .Command means ON/OFF Example below

|  |  |  |
| --- | --- | --- |
| **key** | **value** | **COMMAND** |
| device\_id | LIGHT\_0, AC\_0 | ON/OFF |
| Device\_type | LIGHT, AC | ON/OFF |
| Room\_type | KITCHEN, BR1 | ON/OFF |
| ALL (for all home devices) | ALL | ON/OFF |

**edge\_server\_1.switch\_command("device\_type","AC","ON")**

1. **def set(self,key, value,controldict):** key indicates on what basis status is requested . Controldict accepts value for LIGHT\_INTENSITY/TEMPERATURE

Example for LIGHT\_INTENSITY

|  |  |  |
| --- | --- | --- |
| **key** | **value** | Controldict |
| device\_id | LIGHT\_0 | {"commandkey":"LIGHT\_INTENSITY",  "commandvalue":"HIGH"} |
| Device\_type | LIGHT | {"commandkey":"LIGHT\_INTENSITY",  "commandvalue":"HIGH"} |
| Room\_type | KITCHEN, BR1 | {"commandkey":"LIGHT\_INTENSITY",  "commandvalue":"HIGH"} |
| ALL (for all home devices) | ALL | {"commandkey":"LIGHT\_INTENSITY",  "commandvalue":"HIGH"} |

dict={}

dict['commandkey']="LIGHT\_INTENSITY"

dict['commandvalue']="MEDIUM" **edge\_server\_1.set("device\_id","LIGHT\_0",dict)**

**Example for TEMPERATURE**

|  |  |  |
| --- | --- | --- |
| **key** | **value** | Controldict |
| device\_id | AC\_0 | {"commandkey":"TEMPERATURE",  "commandvalue":"21"} |
| Device\_type | AC | {"commandkey":"TEMPERATURE", |
| Room\_type | KITCHEN, BR1 | "commandvalue":"21"} |
| ALL (for all home devices) | ALL | {"commandkey":"LIGHT\_INTENSITY",  "commandvalue":"HIGH"} |

dict={}

dict['commandkey']="TEMPERATURE"

dict['commandvalue']="20"

**edge\_server\_1.set("device\_type","AC",dict)**