PS C:\RePo> & 'c:\Users\tsyga\AppData\Local\Programs\Python\Python311\python.exe' 'c:\Users\tsyga\.vscode\extensions\ms-python.debugpy-2025.8.0-win32-x64\bundled\libs\debugpy\launcher' '65384' '--' 'C:\RePo\list_topics.py'
An error occurred: [Error 36] TopicAlreadyExistsError: Request 'CreateTopicsRequest_v3(create_topic_requests=[(topic='tsy_hw_4_building_sensors', num_partitions=2, replication_factor=1, replica_assignment=[], configs=[]), (topic='tsy_hw_4_temperature_alerts', num_partitions=1, replication_factor=1, replica_assignment=[], configs=[]), (topic='tsy_hw_4_humidity_alerts', num_partitions=1, replication_factor=1, replica_assignment=[], configs=[])], timeout=30000, validate_only=False)' failed with response 'CreateTopicsResponse_v3(throttle_time_ms=0, topic_errors=[(topic='tsy_hw_4_building_sensors', error_code=36, error_message="Topic 'tsy_hw_4_building_sensors' already exists."), (topic='tsy_hw_4_temperature_alerts', error_code=36, error_message="Topic 'tsy_hw_4_temperature_alerts' already exists."), (topic='tsy_hw_4_humidity_alerts', error_code=36, error_message="Topic 'tsy_hw_4_humidity_alerts' already exists.")])'.

Topics that include tsy_hw_4 (max 3 shown):
- tsy_hw_4_humidity_alerts
- tsy_hw_4_building_sensors
- tstsy_hw_4_temperature_alerts
PS C:\RePo>

Windows PowerShell

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PS C:\Users\tsyga> cd c:\RePo
PS C:\RePo> cd C:\RePo\goit-de-hw-05
PS C:\RePo\goit-de-hw-05> python sensor_producer.py sensor_A
Sensor 3c6ac7d6-ad49-41df-9e4f-3fea57cb6ac1 is sending data to topic 'tsy_hw_4_building_sensors'
[1] Sent: {'sensor_id': '3c6ac7d6-ad49-41df-9e4f-3fea57cb6ac1', 'timestamp': 1749142557.2440863, 'temperature': 39.48, 'humidity': 72.46}
[2] Sent: {'sensor_id': '3c6ac7d6-ad49-41df-9e4f-3fea57cb6ac1', 'timestamp': 1749142559.6491067, 'temperature': 36.76, 'humidity': 68.94}
[3] Sent: {'sensor_id': '3c6ac7d6-ad49-41df-9e4f-3fea57cb6ac1', 'timestamp': 1749142561.6987157, 'temperature': 25.67, 'humidity': 73.45}
[4] Sent: {'sensor_id': '3c6ac7d6-ad49-41df-9e4f-3fea57cb6ac1', 'timestamp': 1749142563.7477248, 'temperature': 25.98, 'humidity': 69.32}
[5] Sent: {'sensor_id': '3c6ac7d6-ad49-41df-9e4f-3fea57cb6ac1', 'timestamp': 1749142565.7976694, 'temperature': 39.26, 'humidity': 57.45}
[6] Sent: {'sensor_id': '3c6ac7d6-ad49-41df-9e4f-3fea57cb6ac1', 'timestamp': 1749142567.8465798, 'temperature': 38.31, 'humidity': 21.3}
[7] Sent: {'sensor_id': '3c6ac7d6-ad49-41df-9e4f-3fea57cb6ac1', 'timestamp': 1749142569.895212, 'temperature': 36.34, 'humidity': 28.04}
[8] Sent: {'sensor_id': '3c6ac7d6-ad49-41df-9e4f-3fea57cb6ac1', 'timestamp': 1749142571.9444523, 'temperature': 28.71, 'humidity': 29.58}
[9] Sent: {'sensor_id': '3c6ac7d6-ad49-41df-9e4f-3fea57cb6ac1', 'timestamp': 1749142573.9935174, 'temperature': 30.93, 'humidity': 52.23}
[10] Sent: {'sensor_id': '3c6ac7d6-ad49-41df-9e4f-3fea57cb6ac1', 'timestamp': 1749142576.04344, 'temperature': 37.71, 'humidity': 49.93}
[11] Sent: {'sensor_id': '3c6ac7d6-ad49-41df-9e4f-3fea57cb6ac1', 'timestamp': 1749142578.0919528, 'temperature': 35.26, 'humidity': 82.98}
[12] Sent: {'sensor_id': '3c6ac7d6-ad49-41df-9e4f-3fea57cb6ac1', 'timestamp': 1749142580.142484, 'temperature': 38.04, 'humidity': 58.42}
[13] Sent: {'sensor_id': '3c6ac7d6-ad49-41df-9e4f-3fea57cb6ac1', 'timestamp': 1749142582.2484927, 'temperature': 28.05, 'humidity': 79.78}

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PS C:\Users\tsyga> cd c:\RePo
PS C:\RePo> cd C:\RePo\goit-de-hw-05
PS C:\RePo\goit-de-hw-05> python sensor_producer.py sensor_B
Sensor 7810a40b-eb45-44c1-aef8-16afbea8a5de is sending data to topic 'tsy_hw_4_building_sensors'
[1] Sent: {'sensor_id': '7810a40b-eb45-44c1-aef8-16afbea8a5de', 'timestamp': 1749142565.6836889, 'temperature': 38.63, 'humidity': 19.06}
[2] Sent: {'sensor_id': '7810a40b-eb45-44c1-aef8-16afbea8a5de', 'timestamp': 1749142568.0732558, 'temperature': 39.54, 'humidity': 45.81}
[3] Sent: {'sensor_id': '7810a40b-eb45-44c1-aef8-16afbea8a5de', 'timestamp': 1749142570.1225414, 'temperature': 35.03, 'humidity': 81.26}
[4] Sent: {'sensor_id': '7810a40b-eb45-44c1-aef8-16afbea8a5de', 'timestamp': 1749142572.171204, 'temperature': 34.99, 'humidity': 19.19}
[5] Sent: {'sensor_id': '7810a40b-eb45-44c1-aef8-16afbea8a5de', 'timestamp': 1749142574.2222664, 'temperature': 28.1, 'humidity': 25.94}
[6] Sent: {'sensor_id': '7810a40b-eb45-44c1-aef8-16afbea8a5de', 'timestamp': 1749142576.3771584, 'temperature': 43.71, 'humidity': 33.19}
[7] Sent: {'sensor_id': '7810a40b-eb45-44c1-aef8-16afbea8a5de', 'timestamp': 1749142578.4269605, 'temperature': 27.33, 'humidity': 80.38}
[8] Sent: {'sensor_id': '7810a40b-eb45-44c1-aef8-16afbea8a5de', 'timestamp': 1749142580.4782336, 'temperature': 43.55, 'humidity': 51.19}

[103] Sent: {'sensor_id': 'd0ce8fa4-06f0-439a-ab44-150cca95e14e', 'timestamp': 1749143945.8232439, 'temperature': 43.9, 'humidity': 55.85}
[104] Sent: {'sensor_id': 'd0ce8fa4-06f0-439a-ab44-150cca95e14e', 'timestamp': 1749143947.8727834, 'temperature': 39.83, 'humidity': 82.72}
[105] Sent: {'sensor_id': 'd0ce8fa4-06f0-439a-ab44-150cca95e14e', 'timestamp': 1749143949.922955, 'temperature': 28.68, 'humidity': 18.83}
[106] Sent: {'sensor_id': 'd0ce8fa4-06f0-439a-ab44-150cca95e14e', 'timestamp': 1749143951.9722648, 'temperature': 39.37, 'humidity': 22.95}
[107] Sent: {'sensor_id': 'd0ce8fa4-06f0-439a-ab44-150cca95e14e', 'timestamp': 1749143954.0222063, 'temperature': 42.39, 'humidity': 83.24}
[108] Sent: {'sensor_id': 'd0ce8fa4-06f0-439a-ab44-150cca95e14e', 'timestamp': 1749143956.0718694, 'temperature': 26.93, 'humidity': 61.05}
[109] Sent: {'sensor_id': 'd0ce8fa4-06f0-439a-ab44-150cca95e14e', 'timestamp': 1749143958.1239724, 'temperature': 32.87, 'humidity': 28.41}
[110] Sent: {'sensor_id': 'd0ce8fa4-06f0-439a-ab44-150cca95e14e', 'timestamp': 1749143960.1736174, 'temperature': 38.95, 'humidity': 33.4}
[111] Sent: {'sensor_id': 'd0ce8fa4-06f0-439a-ab44-150cca95e14e', 'timestamp': 1749143962.222978, 'temperature': 35.19, 'humidity': 35.64}
[112] Sent: {'sensor_id': 'd0ce8fa4-06f0-439a-ab44-150cca95e14e', 'timestamp': 1749143964.2728562, 'temperature': 32.0, 'humidity': 51.33}
[113] Sent: {'sensor_id': 'd0ce8fa4-06f0-439a-ab44-150cca95e14e', 'timestamp': 1749143966.3236156, 'temperature': 43.49, 'humidity': 66.93}
[114] Sent: {'sensor_id': 'd0ce8fa4-06f0-439a-ab44-150cca95e14e', 'timestamp': 1749143968.3730583, 'temperature': 27.29, 'humidity': 71.51}
[115] Sent: {'sensor_id': 'd0ce8fa4-06f0-439a-ab44-150cca95e14e', 'timestamp': 1749143970.4233966, 'temperature': 27.57, 'humidity': 24.39}
[116] Sent: {'sensor_id': 'd0ce8fa4-06f0-439a-ab44-150cca95e14e', 'timestamp': 1749143972.4898248, 'temperature': 37.44, 'humidity': 71.36}
[117] Sent: {'sensor_id': 'd0ce8fa4-06f0-439a-ab44-150cca95e14e', 'timestamp': 1749143974.5538971, 'temperature': 29.24, 'humidity': 45.49}
[118] Sent: {'sensor_id': 'd0ce8fa4-06f0-439a-ab44-150cca95e14e', 'timestamp': 1749143976.6041756, 'temperature': 43.8, 'humidity': 50.53}
[119] Sent: {'sensor_id': 'd0ce8fa4-06f0-439a-ab44-150cca95e14e', 'timestamp': 1749143978.661827, 'temperature': 41.76, 'humidity': 84.94}
[120] Sent: {'sensor_id': 'd0ce8fa4-06f0-439a-ab44-150cca95e14e', 'timestamp': 1749143980.7122793, 'temperature': 32.54, 'humidity': 71.44}
[121] Sent: {'sensor_id': 'd0ce8fa4-06f0-439a-ab44-150cca95e14e', 'timestamp': 1749143982.7630274, 'temperature': 43.13, 'humidity': 20.99}
[122] Sent: {'sensor_id': 'd0ce8fa4-06f0-439a-ab44-150cca95e14e', 'timestamp': 1749143984.813947, 'temperature': 34.03, 'humidity': 70.24}
[123] Sent: {'sensor_id': 'd0ce8fa4-06f0-439a-ab44-150cca95e14e', 'timestamp': 1749143986.8630335, 'temperature': 33.09, 'humidity': 27.88}
[124] Sent: {'sensor_id': 'd0ce8fa4-06f0-439a-ab44-150cca95e14e', 'timestamp': 1749143988.9124515, 'temperature': 27.53, 'humidity': 68.66}
[125] Sent: {'sensor_id': 'd0ce8fa4-06f0-439a-ab44-150cca95e14e', 'timestamp': 1749143990.9641564, 'temperature': 41.26, 'humidity': 58.97}
[126] Sent: {'sensor_id': 'd0ce8fa4-06f0-439a-ab44-150cca95e14e', 'timestamp': 1749143993.025815, 'temperature': 43.18, 'humidity': 67.72}

```
PS C:\RePo\goit-de-hw-05> python alert_consumer.py
Alert processor started and listening for sensor data...
[ALERT] Temp alert sent for sensor d0ce8fa4-06f0-439a-ab44-150cca95e14e: 40.15°C
[ALERT] Temp alert sent for sensor d0ce8fa4-06f0-439a-ab44-150cca95e14e: 42.27°C
[ALERT] Temp alert sent for sensor d0ce8fa4-06f0-439a-ab44-150cca95e14e: 41.82°C
[ALERT] Temp alert sent for sensor d0ce8fa4-06f0-439a-ab44-150cca95e14e: 40.3°C
[ALERT] Temp alert sent for sensor d0ce8fa4-06f0-439a-ab44-150cca95e14e: 41.55°C
[ALERT] Humidity alert sent for sensor d0ce8fa4-06f0-439a-ab44-150cca95e14e: 17.1%
[ALERT] Temp alert sent for sensor d0ce8fa4-06f0-439a-ab44-150cca95e14e: 43.96°C
[ALERT] Humidity alert sent for sensor d0ce8fa4-06f0-439a-ab44-150cca95e14e: 80.58%
[ALERT] Temp alert sent for sensor d0ce8fa4-06f0-439a-ab44-150cca95e14e: 44.42°C
[ALERT] Humidity alert sent for sensor d0ce8fa4-06f0-439a-ab44-150cca95e14e: 15.92%
[ALERT] Temp alert sent for sensor d0ce8fa4-06f0-439a-ab44-150cca95e14e: 41.57°C
[ALERT] Temp alert sent for sensor d0ce8fa4-06f0-439a-ab44-150cca95e14e: 44.07°C
[ALERT] Temp alert sent for sensor d0ce8fa4-06f0-439a-ab44-150cca95e14e: 43.29°C
[ALERT] Temp alert sent for sensor d0ce8fa4-06f0-439a-ab44-150cca95e14e: 44.48°C
[ALERT] Temp alert sent for sensor d0ce8fa4-06f0-439a-ab44-150cca95e14e: 41.05°C
[ALERT] Temp alert sent for sensor d0ce8fa4-06f0-439a-ab44-150cca95e14e: 40.32°C
[ALERT] Temp alert sent for sensor d0ce8fa4-06f0-439a-ab44-150cca95e14e: 42.4°C
[ALERT] Temp alert sent for sensor d0ce8fa4-06f0-439a-ab44-150cca95e14e: 43.9°C
[ALERT] Humidity alert sent for sensor d0ce8fa4-06f0-439a-ab44-150cca95e14e: 82.72%
[ALERT] Humidity alert sent for sensor d0ce8fa4-06f0-439a-ab44-150cca95e14e: 18.83%
```