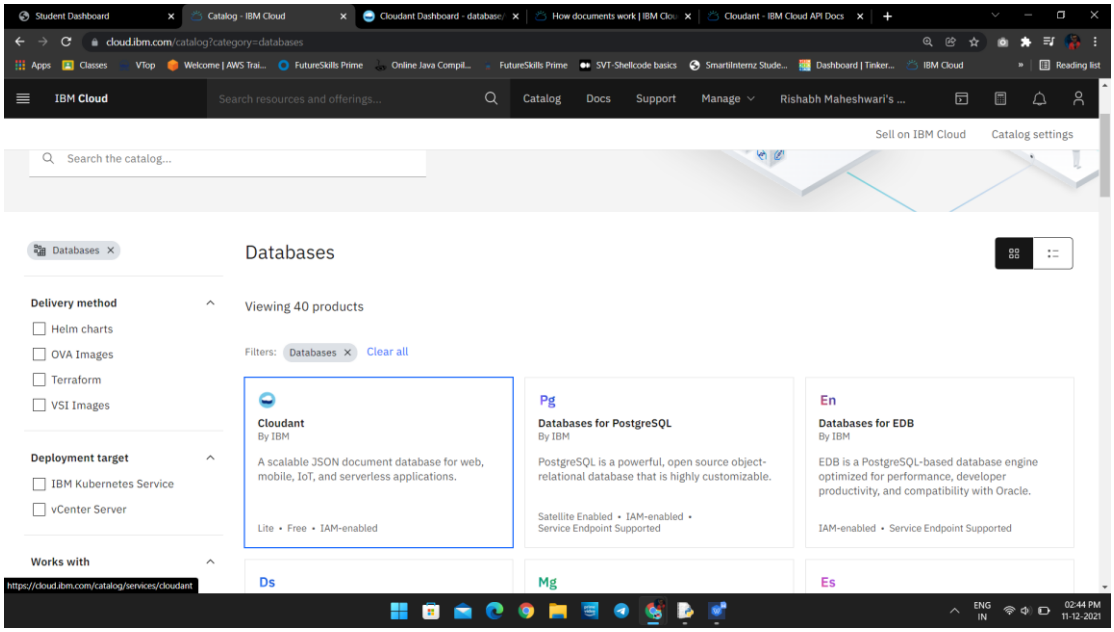
Practicals With IBM Cloudant DB

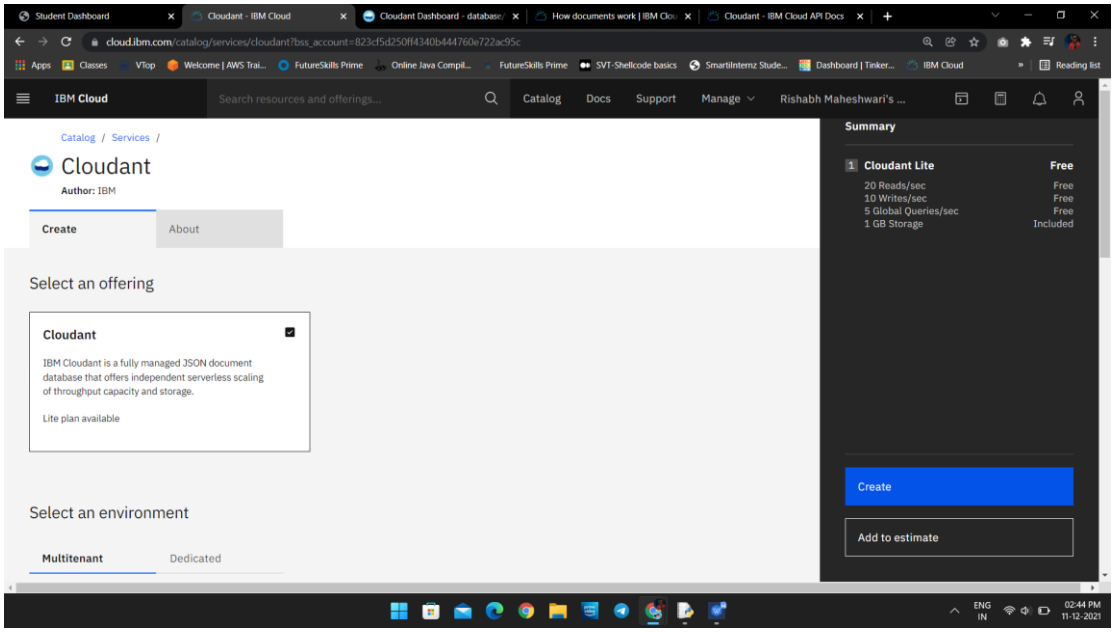
Rishabh Maheshwari
19BCY10145

Explore IBM Cloudant DB, Create a database to store sensor data.
Store the Sensor data in the Cloudant Db and retrieve the data from the DB using Node-RED.

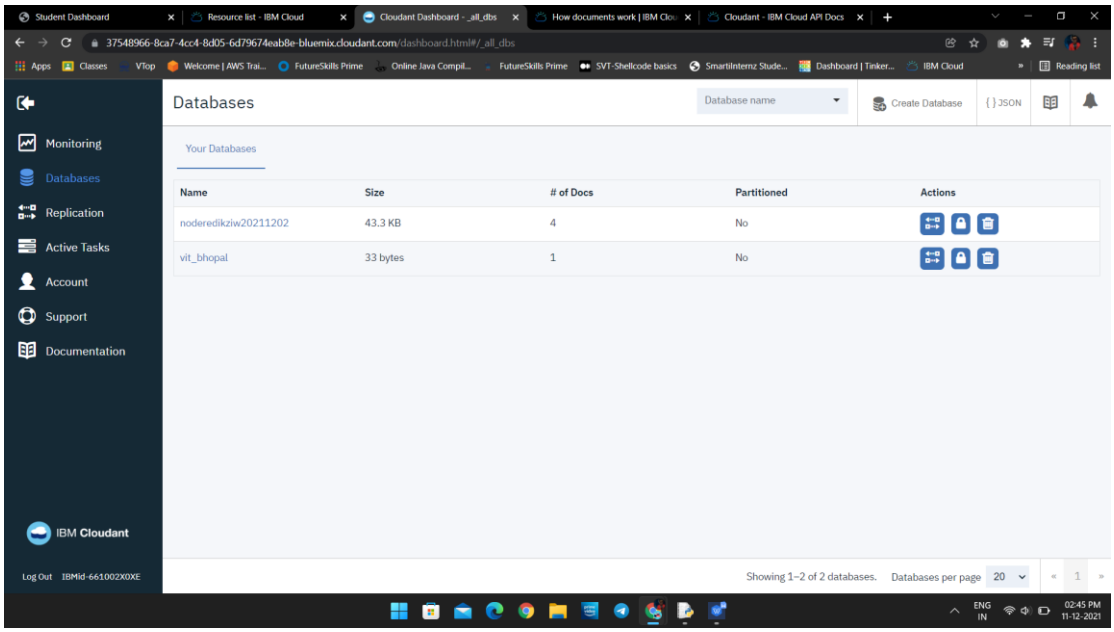
1. Open IBM Cloud and Search for Cloudant in Catalog after applying Databases as filter.



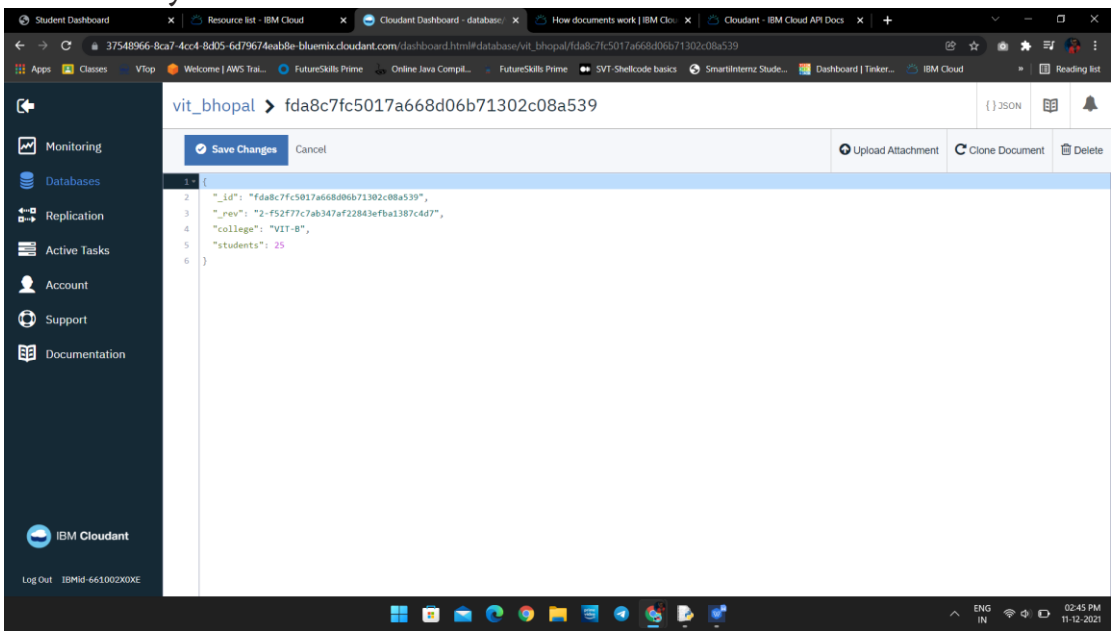
2. Click on Cloudant Database service and Create the service by selecting Create.



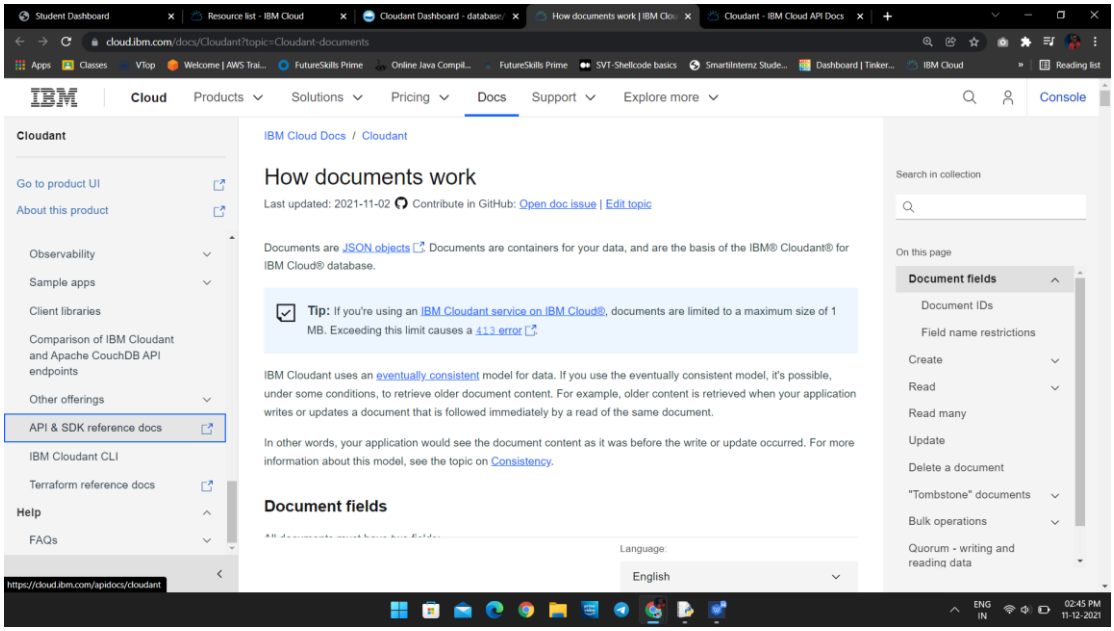
3. A default Database will be present(do not delete it). create new Database by selecting Create Databases.



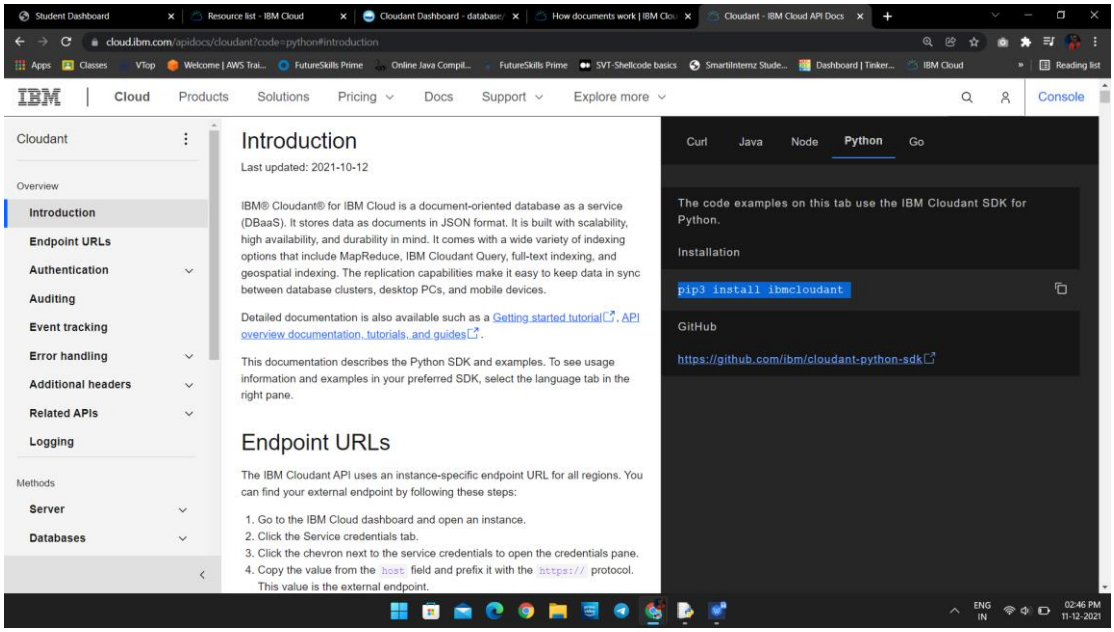
4. After creating the database a new field named “_rev” is created by itself.



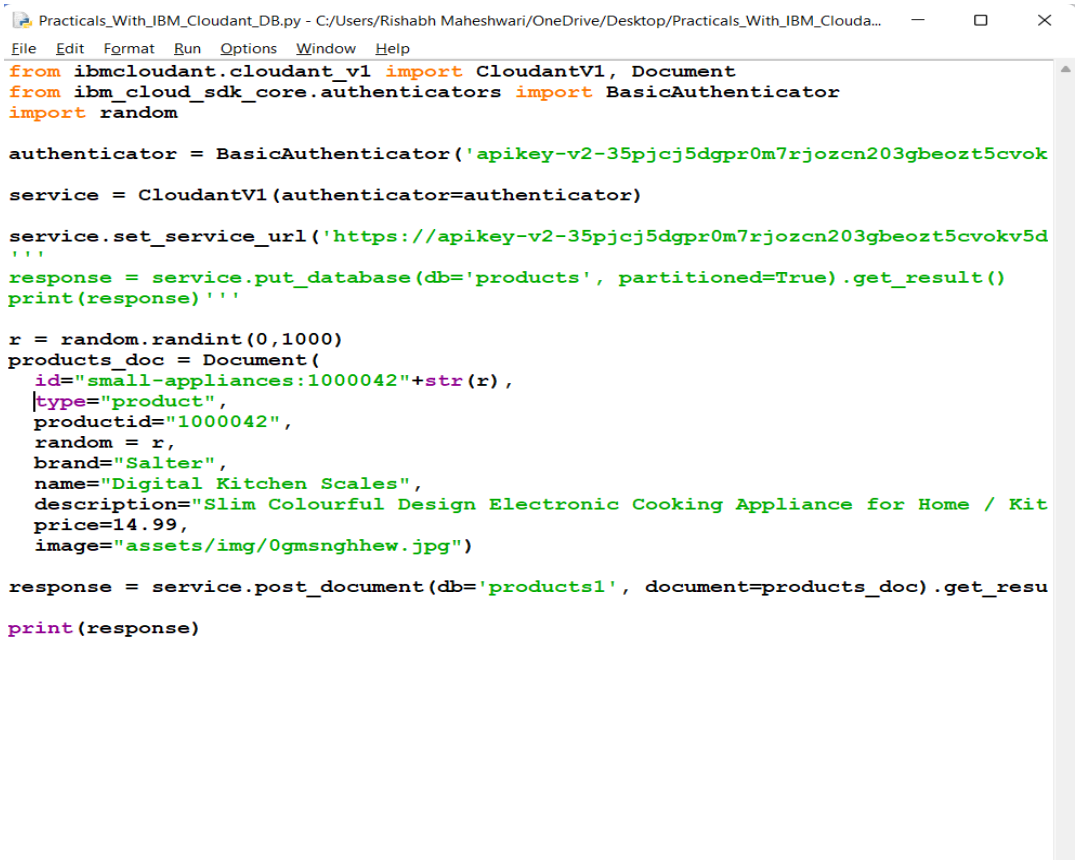
5. For sending data from device to cloud we use a python code. To get its format we have to search the documentations.
So, click on the documentation icon and then search for API & SDK reference docs since, the data is sent using SDKs.



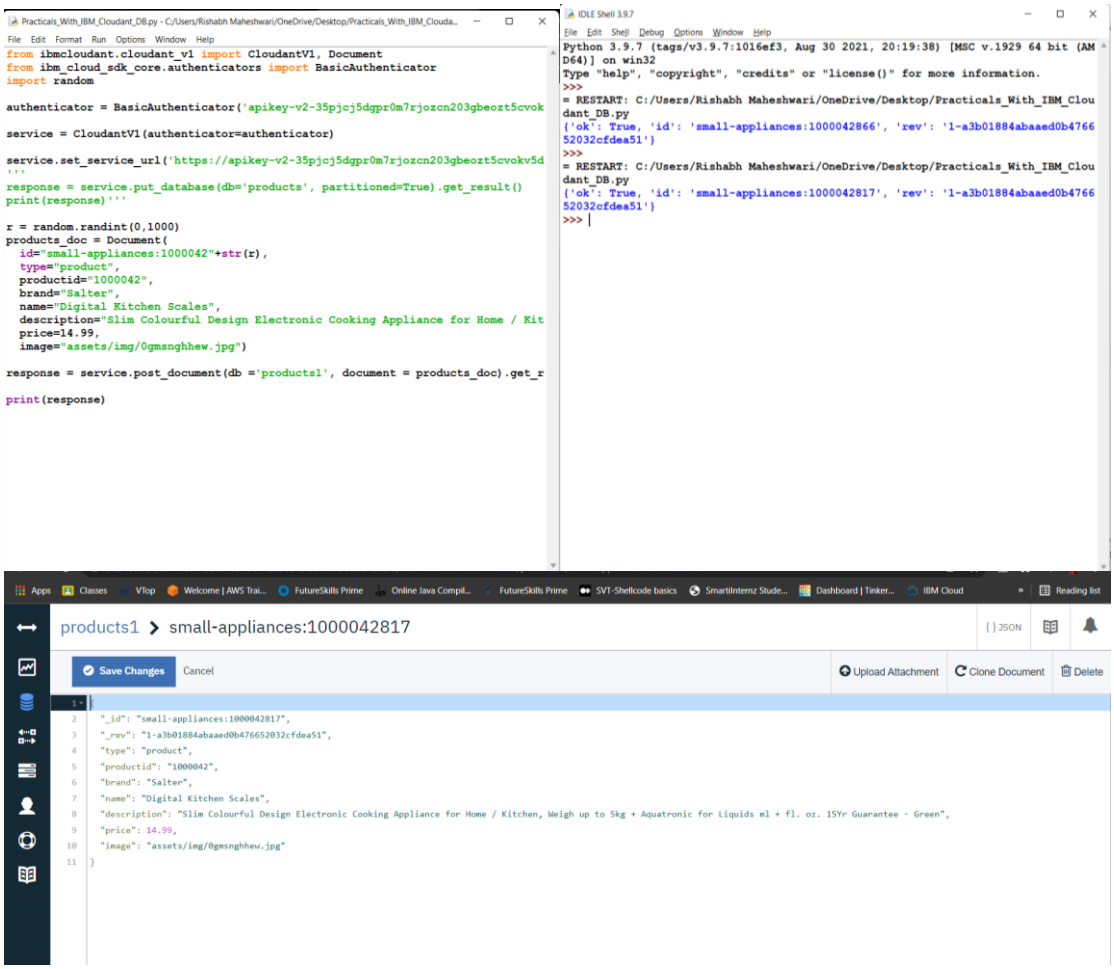
6. First we have to install the ibmcloudant directory using pip installation.



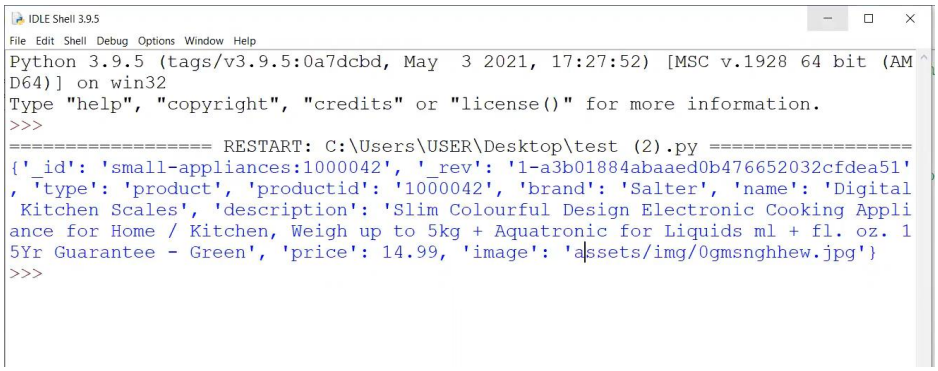
7. Now, to Create and store Sensor Data the python code will be as shown below.



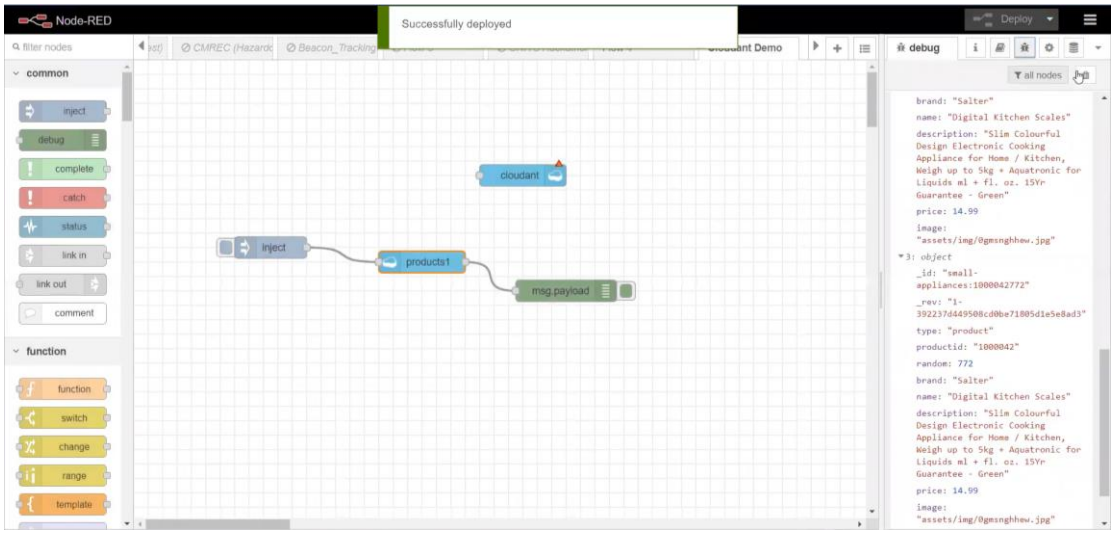
8. New Database named Product1 will be created and Data will be save under the ID name.



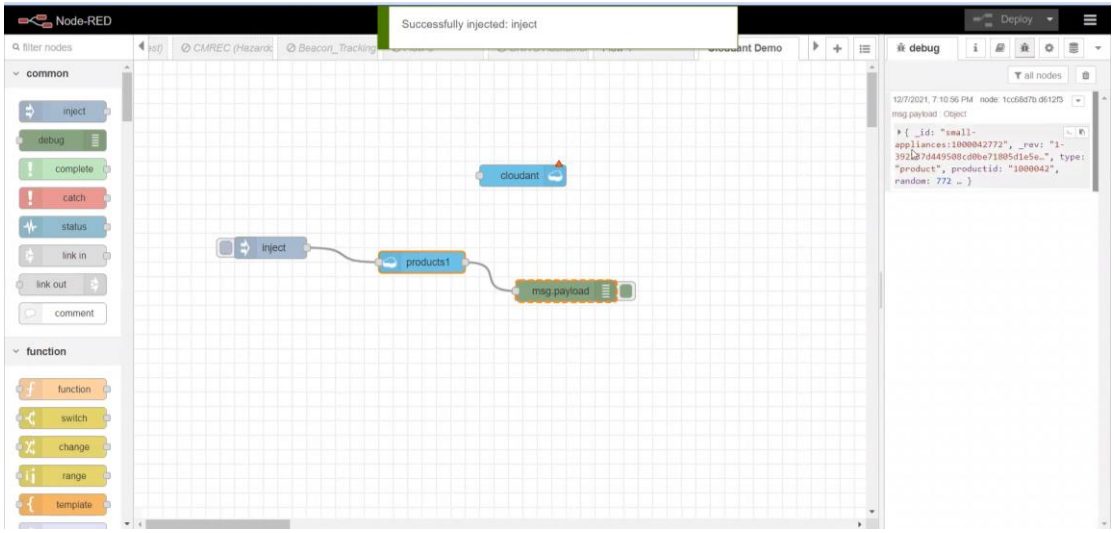
9. To retrieve the data using python code the Output would be as shown.



10. To Send and Retrieve Data using Node-RED create the following flow.
Deploy and the Retrieved Data will be visible in the debug Console.



11. Click the Inject button to inject and store data in cloud database.



12. Clock the Inject Output button in the flow to Retrieve Data from Database.