

PREREQUISITES

IBM CLOUD SERVICES

The screenshot shows the IBM Cloud IoT Dashboard. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A sidebar on the left contains various icons. The main content area displays a table of devices. The first device, with ID 95509404, is in a 'Disconnected' state. A modal window is open, showing details for this device:

Identity	Device Information	Recent Events	State	Logs
Device ID	95509404			
Device Type	IoT			
Date Added	Oct 10, 2022 6:25 PM			
Added By	513119106079@smartinternz.com			
Connection Status	Disconnected			
	Last Connected: Nov 20, 2022 10:51 PM			
	Client Address: 106.195.45.146 SecureToken			
	Duration: 2 minutes			
	Data Transferred: 199 B			

At the bottom of the dashboard, it indicates '1 Simulation running'.

SOFTWARE

```
train_location.py - C:\Users\ELCOT\Documents\Prithika\train_location.py (3.7.0)
File Edit Format Run Options Window Help

#modules import
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
from datetime import datetime

#Provide your IBM Watson Device Credentials
organization = "2ayt7j"
deviceType = "IoT"
deviceId = "95509404"
authMethod = "token"
authToken = "77087672"

#cheran exp 12673
def Cheran_express():
    if T in range(1290,1320):
        result="CURRENT RUNNING STATUS : About to Start from MGR Chennai Central " ;
    elif T==1320:
        result="CURRENT RUNNING STATUS : Started from MGR Chennai Central";
    elif T in range(1321,1380):
        result="CURRENT RUNNING STATUS : About to Reach Arakkonam Junction";
    elif T==1380:
        result="CURRENT RUNNING STATUS : Train reached Arakkonam Junction";
    elif T in range(1381,1435) or T in range(0,65):
        result="CURRENT RUNNING STATUS : Train crossed Arakkonam Junction and about to reach Jolarpettai Junction";
    elif T==65:
        result="CURRENT RUNNING STATUS : Train reached Jolarpettai Junction";
    elif T in range(66,170):
        result="CURRENT RUNNING STATUS : Train crossed Jolarpettai Junction and about to reach Salem Junction";
    elif T==170:
        result="CURRENT RUNNING STATUS : Train reached Salem Junction";
    elif T in range(171,230):
        result="CURRENT RUNNING STATUS : Train crossed Salem Junction and about to reach Erode Junction";
    elif T==230:
        result="CURRENT RUNNING STATUS : Train reached Erode Junction ";
    elif T in range(231,275):
        result="CURRENT RUNNING STATUS : Train crossed Erode Junction and about to reach Tiruppur ";
    elif T==275:
        result="CURRENT RUNNING STATUS : Train reached Tiruppur Junction ";
    elif T in range(276,330):
        result="CURRENT RUNNING STATUS : Train crossed Tiruppur Junction and about to reach Coimbatore North";
    elif T==330:
```