## **SOFTWARE**

Date	08 NOVEMBER 2022
Team ID	PNT2022TMID42281
Project Name	Project – SMART SOLUTIONS FOR RAILWAYS

```
PROCEDURE:
Srep1: Install python version 3.9.6
Step2: Import wiotp in python
Step3:Type the python script for GPS
Step4: Run the program
PYTHON SCRIPT FOR GPS:
import wiotp.sdk.device
import time
import random
myConfig = {
       "identity": {
               "orgId": "ie9hwv",
               "typeId": "device2",
               "deviceId":"1357"
       },
       "auth": {
               "token": "KJDIrv425IN@QeFR"
       }
}
```

```
client.connect()
def pub (data):
       client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
       print ("Published data Successfully: %s", myData)
while True:
       myData={'name': 'Train1', 'lat': 17.6387448, 'lon': 78.4754336}
       pub (myData)
       time.sleep (3)
       #myData={'name': 'Train2', 'lat': 17.6387448, 'lon': 78.4754336)
       #pub (myData)
       #time.sleep (3)
       myData={'name': 'Train1', 'lat': 17.6341908, 'lon': 78.4744722}
       pub(myData)
       time.sleep(3)
       myData={'name': 'Train1', 'lat': 17.6340889, 'lon': 78.4745052}
       pub (myData)
       time.sleep (3)
       myData={'name': 'Train1', 'lat': 17.6248626, 'lon': 78.4720259}
       pub (myData)
       time.sleep (3)
       myData={'name': 'Train1', 'lat': 17.6188577, 'lon': 78.4698726}
       pub (myData)
       time.sleep (3)
       myData={'name': 'Train1', 'lat': 17.6132382, 'lon': 78.4707318}
       pub (myData)
       time.sleep (3)
       client.commandCallback = myCommandCallback
client.disconnect ()
```

## **GPS OUTPUT:**