## **Sprint-2**

## **GPS Tracking**

Sprint Start Date	09 November 2022
Sprint End Date	10 November 2022
Team ID	PNT2022TMID47359
Project name	Project – Smart Solutions for Railways

## **Python Code:**

The python programs are used to send data to the Watson IoT device to provide tracking of the trains.

```
import wiotp.sdk.device
import time import
random myConfig = {
  "identity" :{
     "orgId":"ytluse",
     "typeId": "2702",
     "deviceId":"12345"
     },
  "auth":{
     "token":"O+n)Eh+lNX0y3?rG!8"
     }
  }
def myCommandCallback(cmd):
  print("Message received fromIBM IoT Platform: %s" % cmd.data['command'])
m=cmd.data['command']
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None) 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':'Delhi Express','lat':13.344279,'lon':80.214367}
pub(myData)
               time.sleep(3)
  myData = {'name':'Delhi Express','lat':13.515254,'lon':80.093518}
pub(myData)
               time.sleep(3)
```

```
myData = {'name':'Delhi Express','lat':13.728799,'lon':80.005627}
pub(myData)
                time.sleep(3)
  myData = {'name':'Delhi Express','lat':13.910160,'lon':79.906750}
                time.sleep(3)
pub(myData)
  myData = {'name':'Delhi Express','lat':14.102035,'lon':79.851819}
  pub(myData)
time.sleep(3)
  myData = {'name':'Delhi Express','lat':14.261807,'lon':79.862805}
                time.sleep(3)
pub(myData)
  myData = {'name':'Delhi Express','lat':14.623537,'lon':79.950695}
pub(myData)
                time.sleep(3)
  myData = {'name':'Delhi Express','lat':15.111987,'lon':79.994641}
pub(myData)
                time.sleep(3)
  myData = {'name':'Delhi Express','lat':15.313413,'lon':80.005627}
pub(myData)
                time.sleep(3)
  myData = {'name':'Delhi Express','lat':15.567568,'lon':80.104504}
pub(myData)
                time.sleep(3)
  myData = {'name':'Delhi Express','lat':15.747405,'lon':80.269299
pub(myData)
time.sleep(3)
  myData = {'name':'Delhi Express','lat':15.821409,'lon':80.302258}
pub(myData)
                time.sleep(3)
  myData = {'name':'Delhi Express','lat':15.927082,'lon':80.445080}
pub(myData)
                time.sleep(3)
  myData = {'name':'Delhi Express','lat':16.022141,'lon':80.554943}
pub(myData)
                time.sleep(3)
  myData = {'name':'Delhi Express','lat':17.033801,'lon':80.295512}
pub(myData)
                time.sleep(3)
  myData = {'name':'Delhi Express','lat':18.383088,'lon':18.383088}
pub(myData)
                time.sleep(3)
  myData = { 'name': 'Delhi Express', 'lat': 19.074762, 'lon': 79.487698}
pub(myData)
                time.sleep(3)
  myData = {'name':'Delhi Express','lat':20.179065,'lon':79.001439}
pub(myData)
                time.sleep(3) myData = {'name':'Delhi
Express', 'lat':21.306421, 'lon':78.789356} pub(myData) time.sleep(3)
  myData = {'name':'Delhi Express','lat':22.518024,'lon':77.829404}
                                                      pub(myData)
  time.sleep(3)
  myData = {'name':'Delhi Express','lat':23.264139,'lon':77.429333}
pub(myData)
                time.sleep(3)
  myData = {'name':'Delhi Express','lat':24.509723,'lon':78.330212}
                time.sleep(3)
pub(myData)
  myData = { 'name': 'Delhi Express', 'lat': 25.668840, 'lon': 78.451062}
pub(myData)
                time.sleep(3)
```