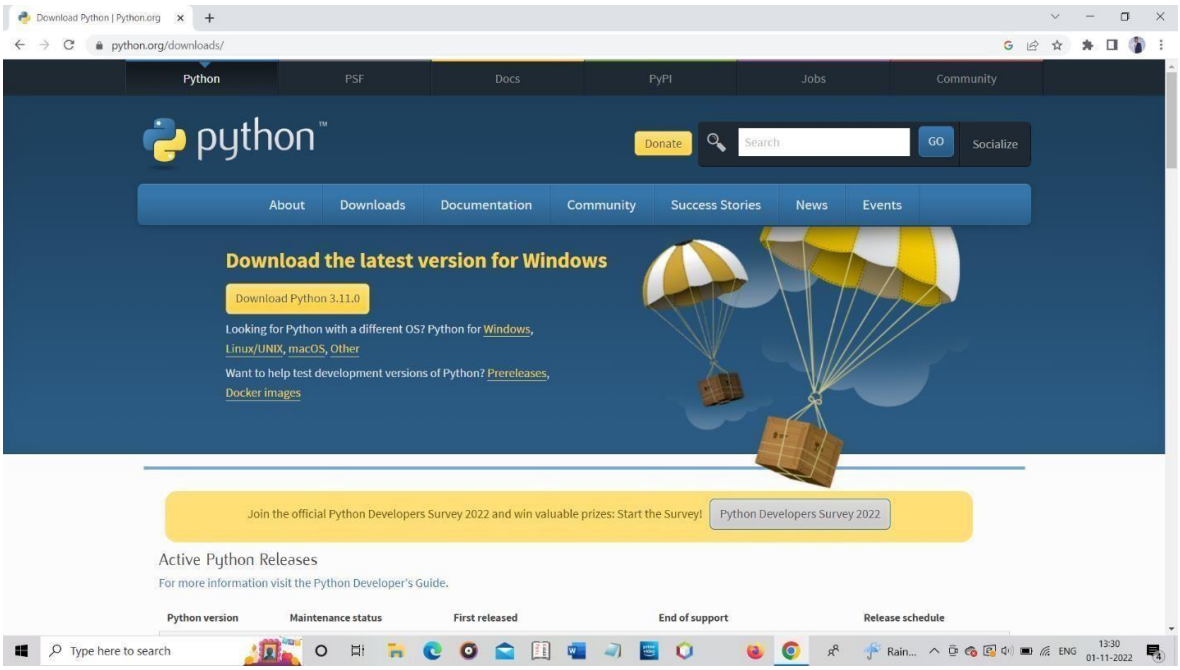
PYTHON SOFTWARE

Date	19 September 2022
Team ID	IBM-Project-PNT2022TMID41960
Project Name	IoT Based Safety Gadget for Child Safety Monitoring & Notification

STEP-1



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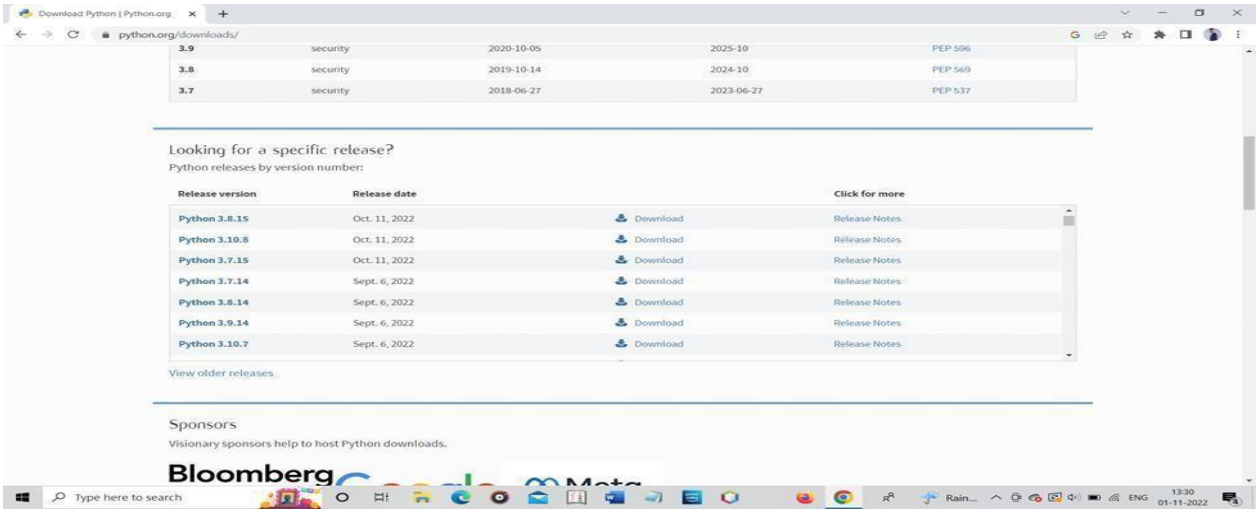
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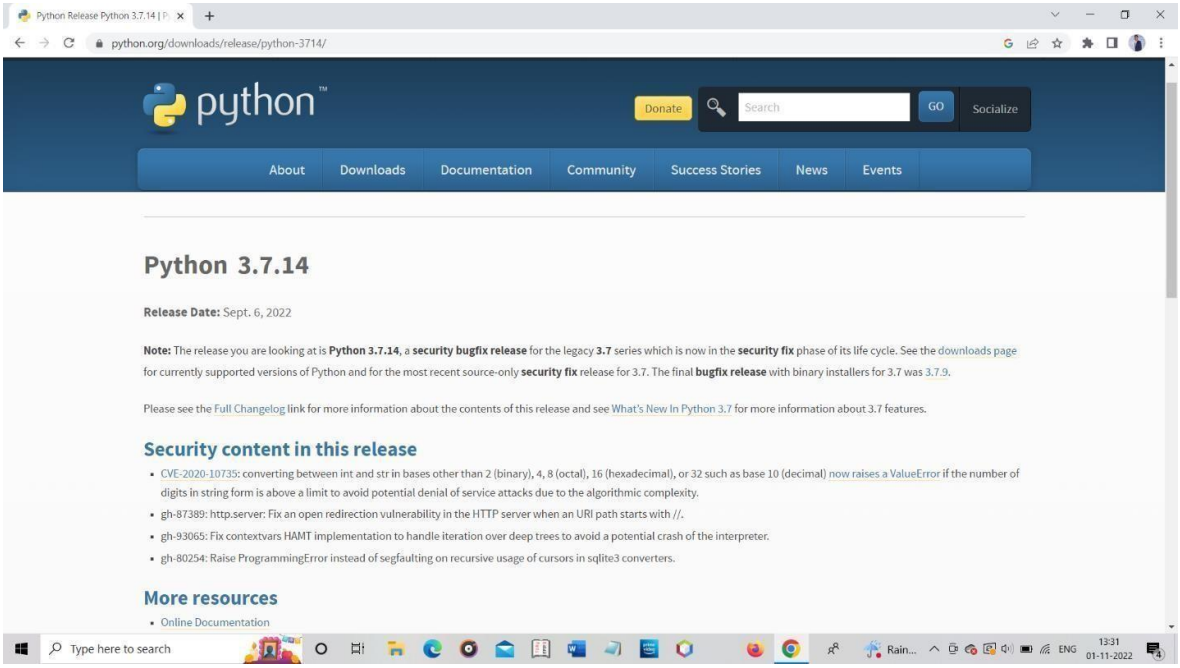
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Python 3.7.14
Release Date: Sept. 6, 2022
Note: The release you are looking at is Python 3.7.14, a security bugfix release for the legacy 3.7 series which is now in the security fix phase of its life cycle. See the downloads page for currently supported versions of Python and for the most recent source-only security fix release for 3.7. The final bugfix release with binary installers for 3.7 was 3.7.9.
Please see the Full Changelog link for more information about the contents of this release and see What's New In Python 3.7 for more information about 3.7 features.
Security content in this release
CVE-2020-10735: converting between int and str in bases other than 2 (binary), 4, 8 (octal), 16 (hexadecimal), or 32 such as base 10 (decimal) now raises a ValueError if the number of digits in string form is above a limit to avoid potential denial of service attacks due to the algorithmic complexity.
gh-87389: http.server: Fix an open redirection vulnerability in the HTTP server when an URI path starts with //.
gh-93065: Fix contextvars HAMT implementation to handle iteration over deep trees to avoid a potential crash of the interpreter.
gh-80254: Raise ProgrammingError instead of segfaulting on recursive usage of cursors in sqlite3 converters.
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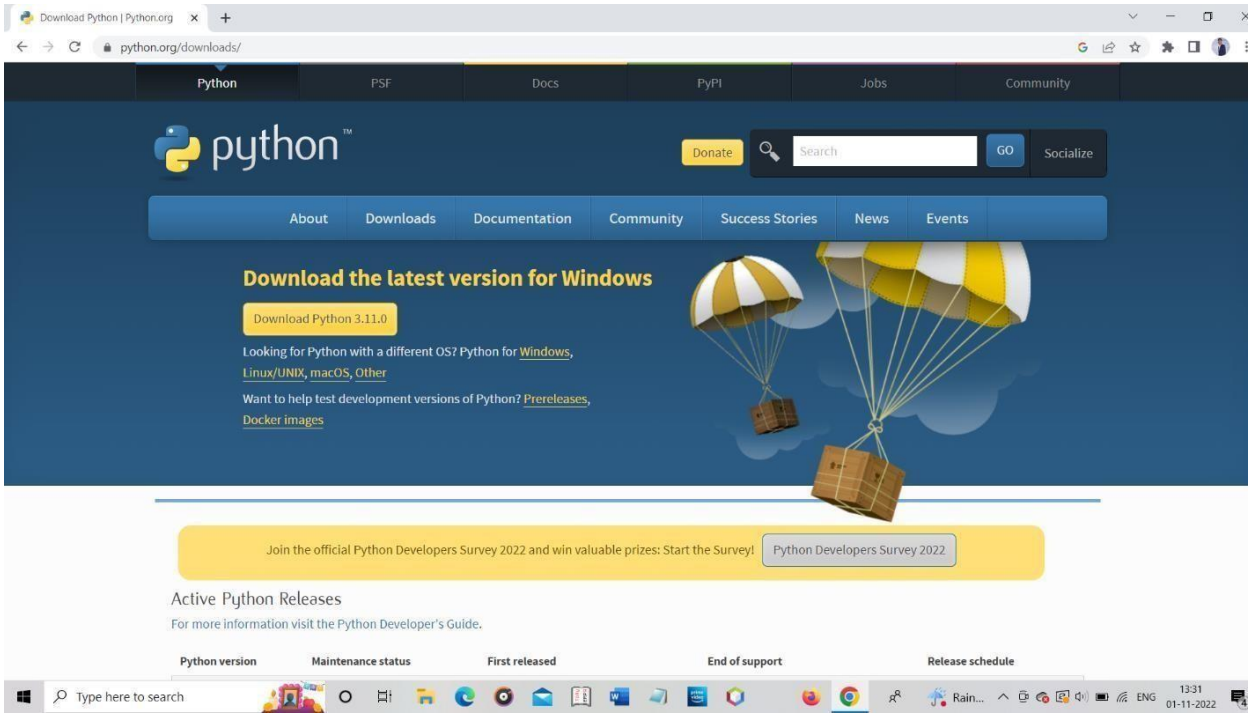
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Select Install Now to install Python with default settings, or choose Customize to enable or disable features.
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Includes IDLE, pip and documentation
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Choose location and features
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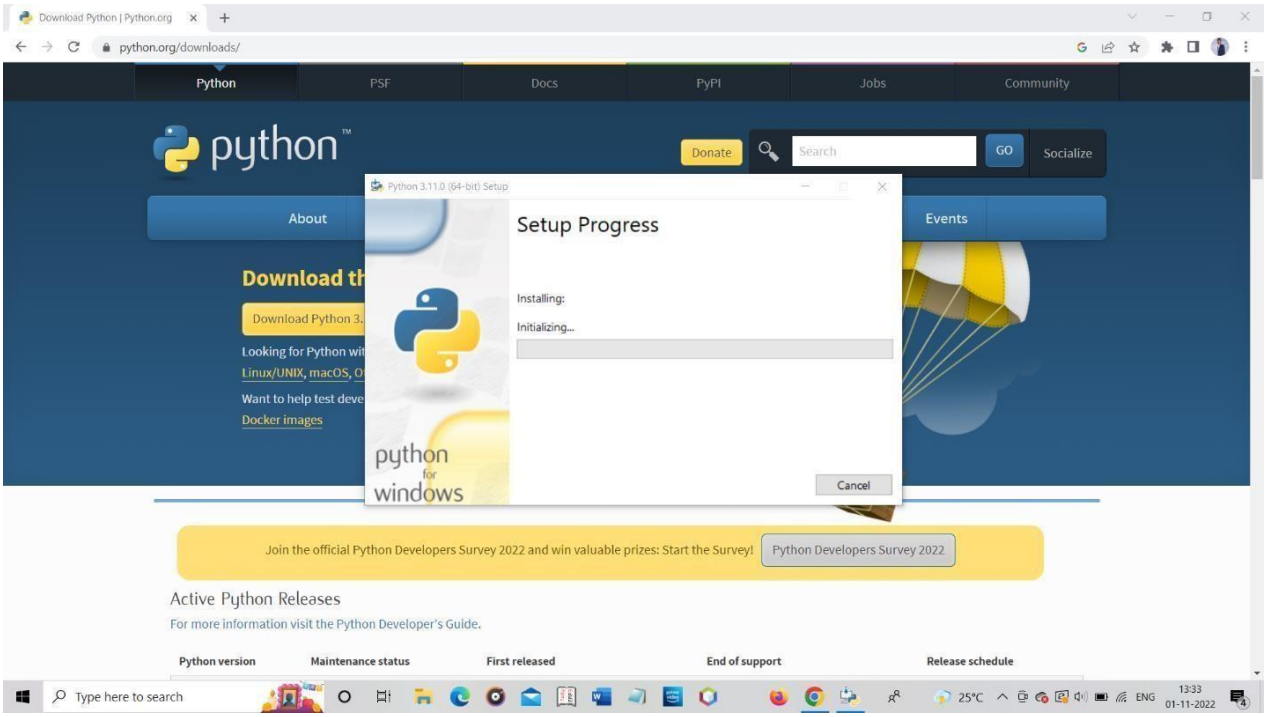
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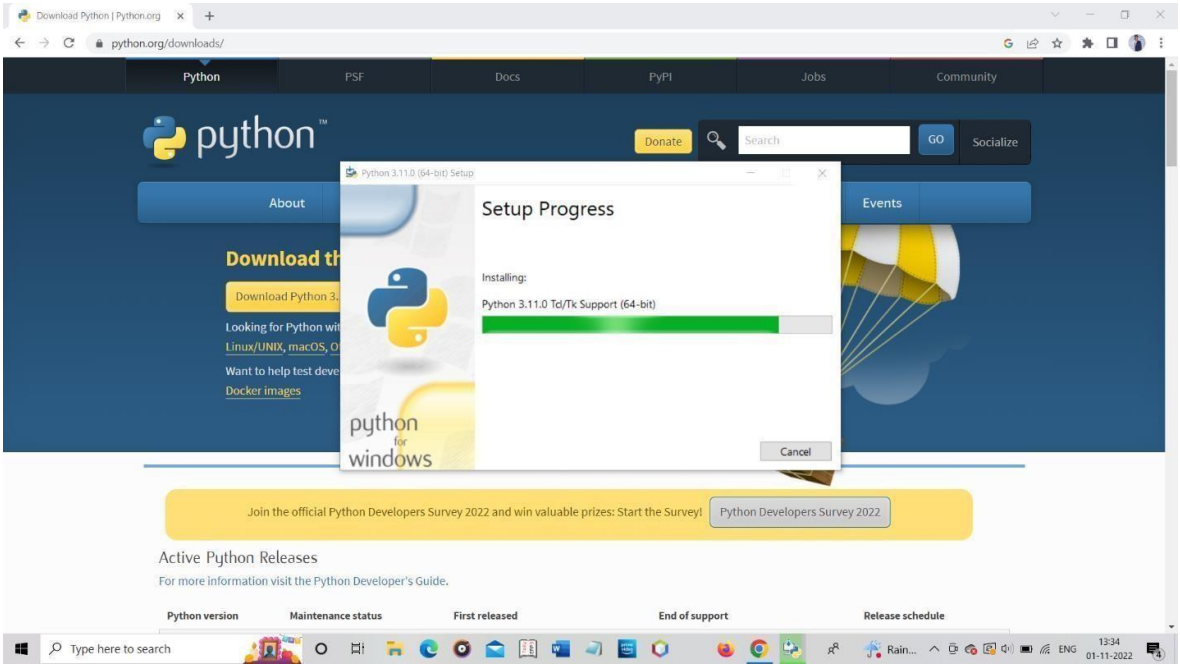
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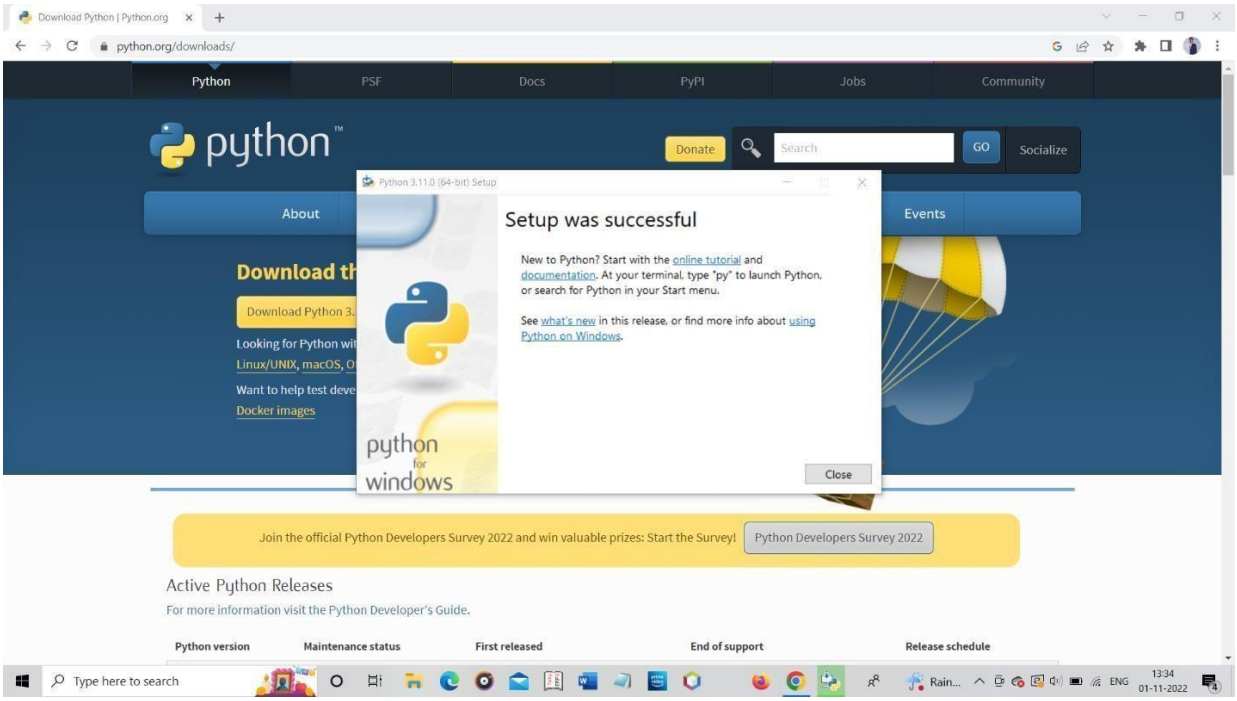
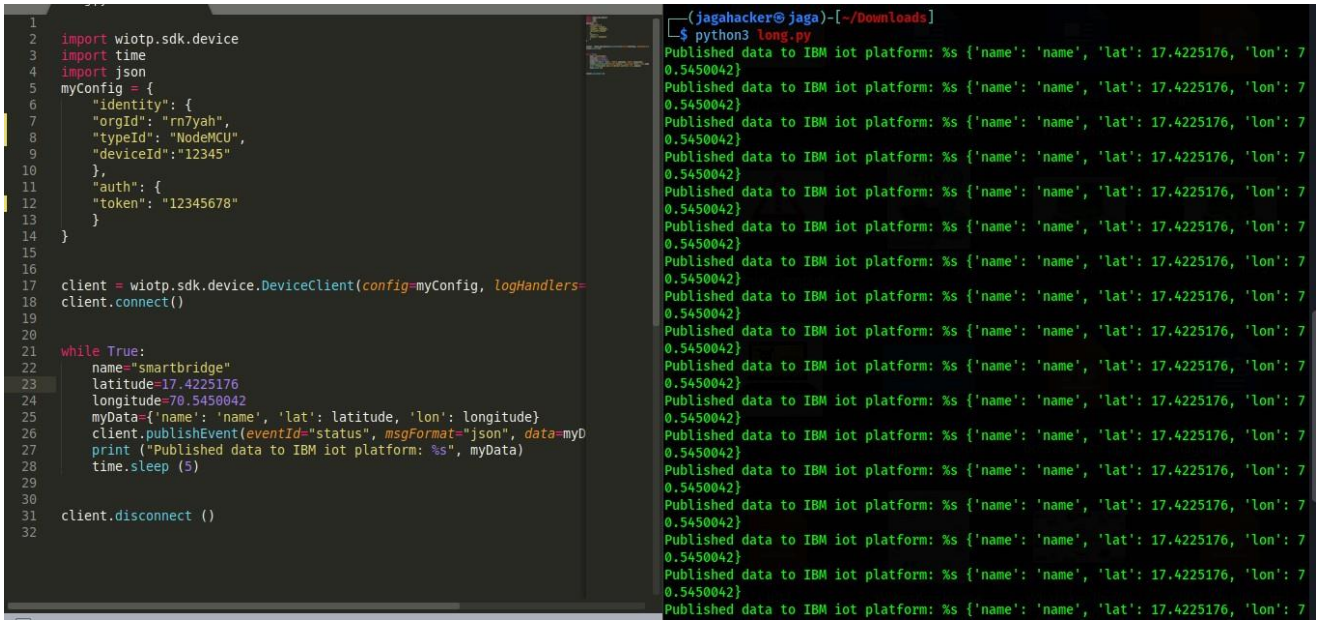


PYTHON CODE:

```
 import json
 import wiotp.sdk.device
 import time
 myConfig = {
   "identity":{
      "orgId": "hj5fmy",
      "typeId": "NodeMCU",
      "deviceId":"12345"
},
"auth": {
"token": "12345678"
 }
 }
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client. connect ()
while True:
name ="smart bridge"
#in area location
#latitude=17.4219272
#longitude=78.5488783
#out area location
latitude=17.4219272
longitude=78.5488783 myData= {'name':name,'lat': latitude, 'log': longitude}
client. publish Event (event ID="status", msgFormat="json",
data=myData, qos=0, on publish=None)
print ("Data published to IBM IOT platform: "myData)
time. Sleep (5)
```

STEP-8



```
import wiotp.sdk.device
import time
import json
myConfig = {
    "identity": {
    "orgId": "rn7yah",
    "typeId": "NodeMCU",
    "deviceId":"12345"
    },
    "auth": {
    "token": "12345678"
    }
}


client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=
client.connect()


while True:
    name="smartbridge"
    latitude=17.4225176
    longitude=70.5450042
    myData={'name': 'name', 'lat': latitude, 'lon': longitude}
    client.publishEvent(eventId="status", msgFormat="json", data=myD
    print ("Published data to IBM iot platform: %s", myData)
    time.sleep (5)


client.disconnect ()
```

```
┌──(jagahacker㉿jaga)-[~/Downloads]
└─$ python3 long.py
Published data to IBM iot platform: %s {'name': 'name', 'lat': 17.4225176, 'lon': 7
0.5450042}
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0.5450042}
Published data to IBM iot platform: %s {'name': 'name', 'lat': 17.4225176, 'lon': 7
```

STEP-8

```
import wiotp.sdk.device
import time
import json
myConfig = {
    "identity": {
    "orgId": "rn7yah",
    "typeId": "NodeMCU",
    "deviceId":"12345"
    },
    "auth": {
    "token": "12345678"
    }
}


client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()


while True:
    name="smartbridge"
    latitude=17.4225176
    longitude=70.5450042
    myData={'name': 'name', 'lat': latitude, 'lon': longitude}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,
onPublish=None)
    print ("Published data to IBM iot platform: %s", myData)
    time.sleep (5)


client.disconnect ()
```

STEP-8

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```
Python 3.9.7 (tags/v3.9.7:1016ef3, Aug 30 2021, 20:19:38) [MSC v.1929 64 bit (AM
D64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
================ RESTART: C:/Users/User/Downloads/trypython.py ================
Type a number: 5
Type another number: 8
The sum is:  13
>>>
```