IoT Based Safety Gadget for Child Safety Monitoring and Notification

ALGORITHM:

1) Import Json.Json is used for storing temporary data.
2) Importing the supporting IBM Watson IoT Platform using the package wiotp.sdk.device.
3) Importing Time to get the current time by passing.
4) Using myConfig module this configuration manage single file for multiple projects.
5) Employ the identity of the projects orgId,deviceId,typeId is specified uniquely by its code.
6) Authentication is done by using the tokenId that we already have while linking with the IBM Cloud.
7) By using the IBM watson platform an connection request is given to the client side.
8) After the connection is being accepted by the client connection is made.
9) While satisfying the conditions the output is taken.
10) Adding the time delay as 5.
11) Finally the output is printed.
12) Client is now disconnected.

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= "smartbridge"
  #in area location

  #latitude= 17.4225176
  #longitude= 78.5458842

  #out area location

  latitude= 17.4219272
  longitude= 78.5488783
  myData={'name': name, 'lat':latitude, 'lon':longitude}
  client.publishEvent(eventId="status", msgFormat="json",
data=myData, qos=0, onPublish=None )
  print("Data published to IBM Iot platform: ",myData)
  time.sleep(5)

client.disconnect()
```

Output: