IOT BASED SMART POULTRY FARMING FOR AGRICULTURE

Develop The Python Script

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Develop A Python Script
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random\
#Provide your IBM Watson Device Credentials
organization ="8osflk"
deviceType = "cropprotection99"
deviceId = "cropprotection99"
authMethod="token"
authToken ="duiH-8z@4u@JXTmx20"
# InitializeGPIO
def myCommandCallback(cmd):
print("Command received: %s" %cmd.data['command'])
status =cmd.data['command']
if status=="lighton":
print("led on")
else:
print("led off")
#print(cmd)
try:
```

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deviceOptions={"org": organization, "type":deviceType, "id": deviceId, "auth-method":
 authMethod, "auth-token": authToken}
  deviceCli=ibmiotf.device.Client(deviceOptions)
  #.....
except Exception as e:
  print("Caught exception connecting device:%s" %str(e))
  sys.exit()
#Connectandsendadatapoint"hello"withvalue"world"intothecloudasaneventoftype"greeting
 "10times
deviceCli.connect()
while True:
  #GetSensorDatafromDHT11
  temp=random.randint(0,100)
  humid=random.randint(0,100)
  data={'temperature':temp,'humidity':humid}
  #printdata
  def myOnPublishCallback():
  print("Published Temperature=%s C" %temp,"Humidity=%s %%" % humid,"to
 IBMWatson")
success = deviceCli.publishEvent ("IoTSensor", "json", data, qos = 0, on\_publish = myOnPublishCallbut ("IoTSensor", "json", data, qos = 0, on\_publish = myOnPublishCallbut ("IoTSensor", "json", data, qos = 0, on\_publish = myOnPublish = myO
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ack)

if not success:

print("NotconnectedtoIoTF")
time.sleep(1)

deviceCli.commandCallback=myCommandCallback

#Disconnectthedeviceandapplicationfromthecloud deviceCli.disconnect()

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