PYTHON CODING

| Date | 19 November 2022 |
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| Team ID | PNT2022TMID29937 |
| Project name | Project – Smart Farmer-IoT Enabled smart Farming Application |

```
import time import
import ibmiotf.application
import ibmiotf.device import
random
#Provide your IBM Watson Device Credentials
orgId = "nleaxk" deviceType =
"smartfarming" deviceId =
"TamilNadu" Token =
"q3(u4iv5-4L+OHy@wm"
authMethod = "use-token-auth"
# Initialize GPIO
    def
myCommandCallback(cmd):
   print("Command received: %s" % cmd.data['command'])
print ("motor is on") else:
       print ("motor is off")
   #print(cmd)
try:
 deviceOptions = {"org": orgId, "type": deviceType, "id": deviceId,
"auth-method": authMethod, "auth-token": Token}
deviceCli = ibmiotf.device.Client(deviceOptions)
 #..........
  except Exception as
 print("Caught exception connecting device: %s" % str(e))
sys.exit()
# Connect and send a datapoint "hello" with value "world" into the cloud
as an event of type "greeting" 10 times deviceCli.connect()
while
True:
   #Get Sensor Data from DHT11
                                 temp=random.randint(-
20,125)
           hum=random.randint(0,100)
soil=random.randint(0,100)
   data = { 'temp' : temp, 'hum': hum , 'soil': soil}
```

