TEAM ID	PNT2022TMID24852
PROJECT TITLE	IOT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE
DATE	18/11/2022

CODE:

```
Import time import sys import
import ibmiotf.application import
ibmiotf.device import random
#Provide your IBM Watson Device Credentials
organization = "f41515" deviceType = "abcd"
deviceId = "6880" authMethod = "token"
authToken = "12345678"
# Initialize GPIO
def myCommandCallback(cmd): print("Command
received: %s" % cmd.data['command'])
status=cmd.data['command'] if status=="motoron":
print ("motor is on") else :
print ("motor is off")
#print(cmd) try:



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()
 # 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(90,100)
```

```python
Humid=random.randint(60,100) data = { 'temp' : temp, 'Humid': Humid }
#print data def
myOnPublishCallback():
 print ("Published Temperature = %s C" % temp, "Humidity = %s %%" % Humid, "to IBM
Watson")
success       =       deviceCli.publishEvent("IoTSensor",       "json",       data,  qos=0,
on_publish=myOnPublishCallback)
if not success: print("Not connected to IoTF")
time.sleep(10) deviceCli.commandCallback =
myCommandCallback
# Disconnect the device and application from the cloud
deviceCli.disconnect()
```