TEAM ID	PNT2022TMID23634
TEAM MEMBERS	T.Deepika S.Dhanalakshmi K.S.Dhivya P.Malathi

```
# Provide your IBM Watson Device Credentials organization = "VCEW" # replace the ORG ID
deviceType = "Deepika" # replace the Device type deviceId = "Deepika86" # replace Device ID
authMethod = "token" authToken = "12345678" # Replace the authtoken


def myCommandCallback(cmd): # function for Callback if cm.data['command'] == 'motoron':

print("MOTOR ON IS RECEIVED")

 elif cmd.data['command'] == 'motoroff': print("MOTOR OFF IS RECEIVED")

 if cmd.command == "setInterval":


  else:

if 'interval' not in cmd.data:

print("Error - command is missing requiredinformation: 'interval'")


interval = cmd.data['interval']


elif cmd.command == "print":

if 'message' not in cmd.data:

print("Error - commandis missing requiredinformation: 'message'")
else:output = cmd.data['message']

print(output)




try:


deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "authmethod":
authMethod,

"auth-token": authToken}                deviceCli

= ibmiotf.device.Client(deviceOptions) # .....
```

exceptException 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:

deviceCli.commandCallback = myCommandCallback

Disconnect the device and application from the cloud deviceCli.disconnect()

SENSOR.PY

import time import sysimport ibmiotf.application importibmiotf.device

import random

Provide your IBM Watson Device Credentials organization = "VCEW" # replace the ORG ID deviceType = "Deepika" # replace the Device type deviceId = "Deepika86" # replace Device ID authMethod = "token" authToken = "12345678" # Replace the authtoken

def myCommandCallback(cmd):

print("Command received: %s" % cmd.data['command']) print(cmd)

try:

deviceOptions = {"org": organization, "type": deviceType, "id": deviceId,

"auth-method": authMethod, "auth-token": authToken} deviceCli = ibmiotf.device.Client(deviceOptions)

```
#.....

exceptException 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:

temp=random.randint(0,100) pulse=random.randint(0,100)

soil=random.randint(0,100)

data = { 'temp' : temp, 'pulse': pulse ,'soil':soil} #print data                def

myOnPublishCallback():

print ("Published Temperature = %s C" % temp, "Humidity = %s %%" % pulse,"Soil Moisture = %s %%" % soil,"to IBM Watson")

success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0, on_publish=myOnPublishCallback)
if not success:

print("Not connected to IoTF") time.sleep(1)

deviceCli.commandCallback = myCommandCallback

# Disconnect the device and application from the cloud deviceCli.disconnect()
```