Date	21 October 2022
Team ID	PNT2022TMID21901
Project Name	Project – Smart Farmer- IoT based Smart Farming Application
Maximum Marks	8 Marks

SPRINT 1

PYTHON CODE:

```python
import time

import sys

import ibmiotf.application # to install pip install ibmiotf

import ibmiotf.device

#Provide your IBM Watson Device Credentials

organization = "ie8mpi" # repalce it with organization ID

deviceType = "IoT_device" #replace it with device type

deviceId = "IoT_device_1" #repalce with device id

authMethod = "token"

authToken = "12345678"#repalce with token


def myCommandCallback(cmd): # function for Callback

    print("Command received: %s" %cmd.data)

    if cmd.data['command']=='motoron':

        print("MOTOR ON IS RECEIVED")


    elif cmd.data['command']=='motoroff':

        print("MOTOR OFF IS RECEIVED")


    if cmd.command == "setInterval":


        if 'interval' not in cmd.data:

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

        else:

            interval = cmd.data['interval']
```

```python
        elif cmd.command == "print":

            if 'message' not in cmd.data:

                print("Error - command is missing required information: 'message'")

            else:

                output=cmd.data['message']

                print(output)


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:


    deviceCli.commandCallback = myCommandCallback


# Disconnect the device and application from the cloud

deviceCli.disconnect()
```