## Smart Farmer - IOT Enabled Smart Farming Application

## Sprint - 1

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## **Python Code:-**

import time

import sys

import ibmiotf.application # to install pip install ibmiotf import ibmiotf.device

#Provide your IBM Watson Device Credentials

organization = "0lsrz8" # repalce it with organization ID

deviceType = "Agriculture\_1" #replace it with device type

deviceId = "Device\_2" #repalce with device id

authMethod = "token"

```
def myCommandCallback(cmd): # function for Callback print("Command
received: %s" % cmd.data)
if cmd.data['command']=='motoron'
 print("Turn Motor ON")
 elif cmd.data['command']=='motoroff':
 print("Turn Motor OFF")
 elif cmd.data['command']=='lighton':
 print("Turn Light ON")
 elif cmd.data['command']=='lightoff':
 print("Turn Light OFF")
 if cmd.command == "setInterval":
 if 'interval' not in cmd.data:
 print("Error - command is missing required information: 'interval'")
 else:
 interval = cmd.data['interval']
 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()
```

**Output:-**

