DEVELOP A PYTHON SCRIPT

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Project Name	SMARTFARMER – IoT ENABLED SMART FARMING APPLICATION

PROGRAM :

```
import time
import sys
import ibmiotf.application # to install pip install
ibmiotf
import ibmiotf.device

#Provide your IBM Watson Device Credentials
organization = "72gvat" #replace the ORG ID
deviceType = "lenova"#replace the Device type
wi
deviceId = "744905"#replace Device ID
authMethod = "use-token-auth"
authToken=”12345678”


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']
        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)



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()
```