## **IOT ENABLED SMART FARMING APPLICATION**

## PYTHON CODE

```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson Device Credentials
organization = "TU45K3"
deviceType = "sensor-1"
deviceId = "sensor1"
authMethod = "use-auth-
token"
authToken = "123456789"
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)
 #......
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:
       temperature=random.randint(0,100)
       humidity=random.randint(0,100)
       soil= random.randint(0,100)
       data = {'temperature' : temperature, 'Humidity': humidity
,'moisture':soil}
       #print data
```

