PROJECT DEVELOPMENT PHASE
SPRINT-3
Python code

Program:

```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random

organization="pyfl"
deviceType="hazard"
deviceId="231099"
authMethod="token"
authToken="zHP+8f lUb*Hmx ADd8"

def myCommandCallback(cmd):
print("Command received:%s" % cmd.data['command'])
status=cmd.data['command']
if status=="motoron":
print("Motor is ON")
else:
print("Motor is OFF")


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()
```

```
deviceCli.connect()


while True:

temp=random.randint(0,100)
noise=random.randint(0,100)
Gas=random.randint(0,100)
radn=random.randint(0,100)
data={'Temperature' :temp,'Noise':noise,'Gas_leakage':Gas,'Radiation':radn}


def myOnPublishCallback():
print("Published Temperature=%s C" %temp,"Noise:%s db"
%noise,"Gas_leakage:%s J/Kg" %Gas,"Radiation:%s rad "%radn,"to IBM
Watson")


success=deviceCli.publishEvent("IoTSensor","json",data,qos=0,on_publish=myO
nPublishCallback)
if not success:
print("Not connected to IoTF")
time.sleep(1)


deviceCli.commandCallback=myCommandCallback

deviceCli.disconnect()
```