SPRINT - 1

Team ID	PNT2022TMID11108
Project Name	Project – A low cost cloud-Based IoT System for Real-Time Monitoring and Controlling for Smart Farming

OBJECTIVE:

Connecting Sensors with Arduino.

PYTHON CODE:

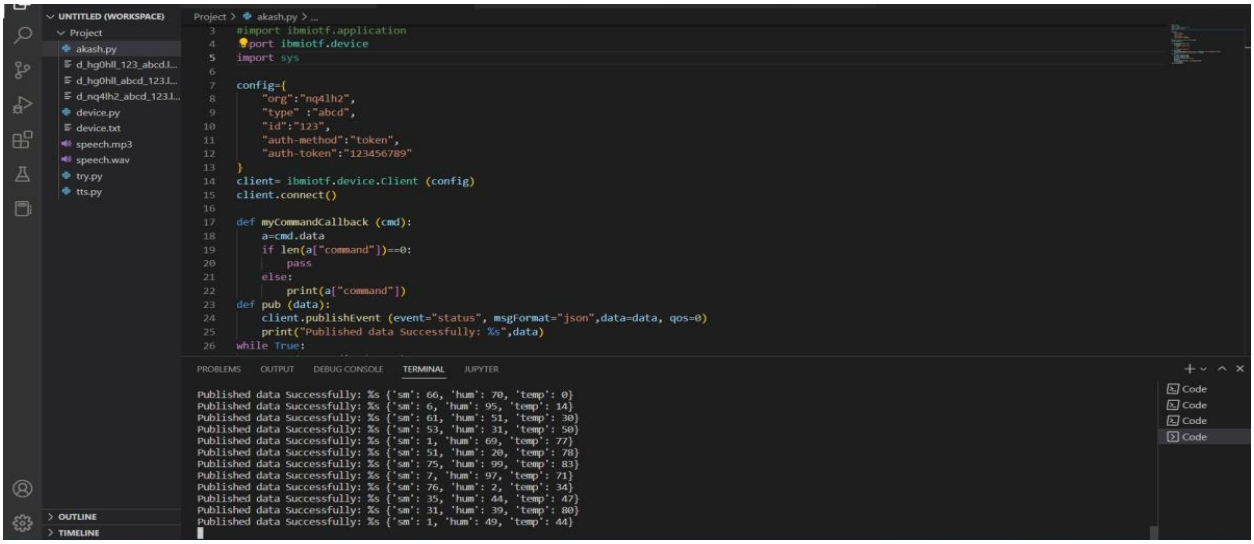
```
import time import random
#import ibmiotf.application
import ibmiotf.device
import sys


config={
"org":"nq4lh2",
   "type" :"abcd",
   "id":"123",
   "auth-method":"token",     "auth-token":"123456789"
}
client= ibmiotf.device.Client (config) client.connect()

def myCommandCallback (cmd):
   a=cmd.data     if
len(a["command"])==0:
```

```
        pass     else:
print(a["command"
]) def pub (data):
client.publishEvent
(event="status",
msgFormat="json"
,data=data, qos=0)
print("Published
data Successfully:
%s",data) while
True:
s=random.randint(
0,100)
h=random.randint(
0,100)
t=random.randint(0
,100)
data={"sm":s,"hum
":h,"temp":t}
pub(data)
    client.commandCallback = myCommandCallback
client.disconnect()
```

OUTPUT:


UNTITLED (WORKSPACE)
Project
akash.py
d_hg0hll_123_abcd.l...
d_hg0hll_abcd_123.l...
d_nq4lh2_abcd_123.l...
device.py
device.txt
speech.mp3
speech.wav
try.py
tts.py
OUTLINE
TIMELINE
Project > akash.py > ...
#import ibmiotf.application
import ibmiotf.device
import sys
config={
"org":"nq4lh2",
"type" :"abcd",
"id":"123",
"auth-method":"token",
"auth-token":"123456789"
}
client= ibmiotf.device.Client (config)
client.connect()
def myCommandCallback (cmd):
a=cmd.data
if len(a["command"])==0:
pass
else:
print(a["command"])
def pub (data):
client.publishEvent (event="status", msgFormat="json",data=data, qos=0)
print("Published data Successfully: %s",data)
while True:
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
JUPYTER
Published data Successfully: %s {'sm': 66, 'hum': 70, 'temp': 0}
Published data Successfully: %s {'sm': 6, 'hum': 95, 'temp': 14}
Published data Successfully: %s {'sm': 61, 'hum': 51, 'temp': 30}
Published data Successfully: %s {'sm': 53, 'hum': 31, 'temp': 50}
Published data Successfully: %s {'sm': 1, 'hum': 69, 'temp': 77}
Published data Successfully: %s {'sm': 51, 'hum': 20, 'temp': 78}
Published data Successfully: %s {'sm': 75, 'hum': 99, 'temp': 83}
Published data Successfully: %s {'sm': 7, 'hum': 97, 'temp': 71}
Published data Successfully: %s {'sm': 76, 'hum': 2, 'temp': 34}
Published data Successfully: %s {'sm': 35, 'hum': 44, 'temp': 47}
Published data Successfully: %s {'sm': 31, 'hum': 39, 'temp': 80}
Published data Successfully: %s {'sm': 1, 'hum': 49, 'temp': 44}
Code
Code
Code
Code