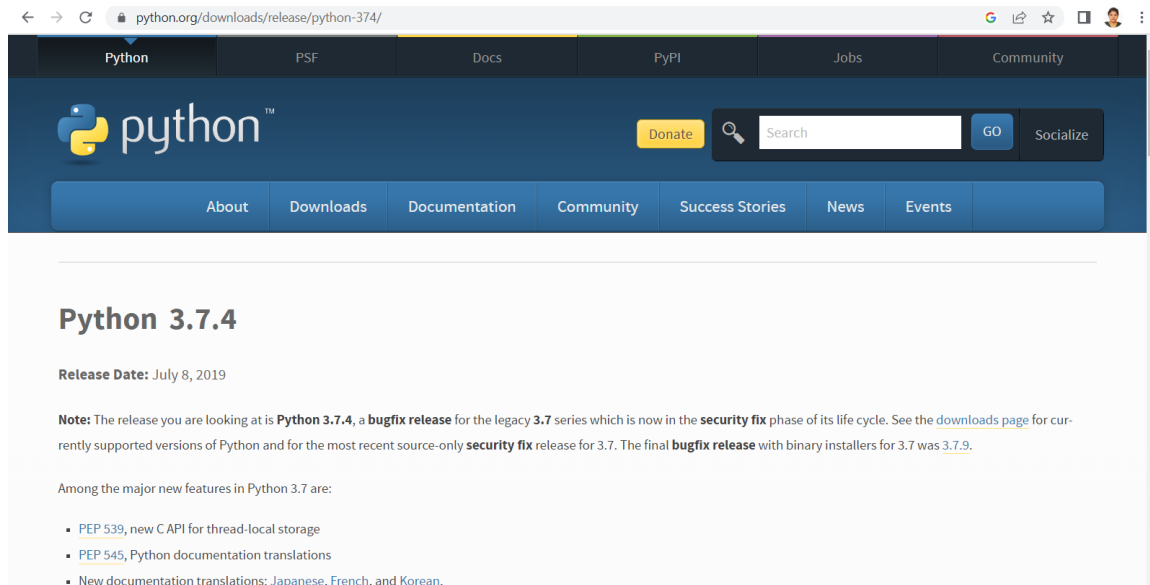


PROJECT DEVELOPMENT PHASE

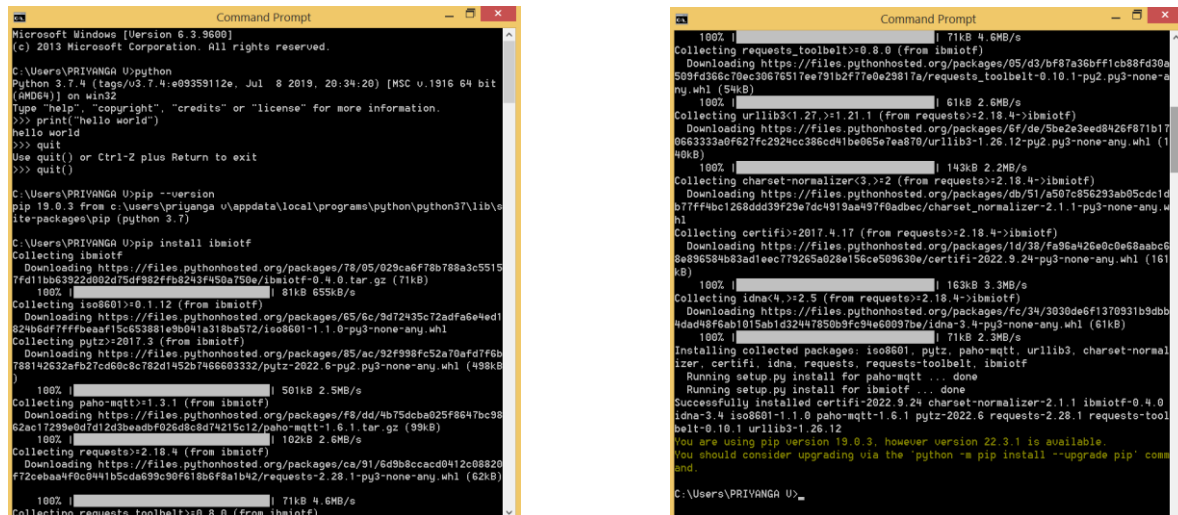
SPRINT-1

Team ID	PNT2022TMID27900
Project Name	IOT Based Smart Crop Protection System for Agriculture

PYTHON SOFTWARE DOWNLOADED



COMMAND PROMPT LINKED THE IOT DEVICE



GIVE THE DEVICE DETAIL IN THE CODE FOR CONNECTING IBM CLOUD WATSON WHICH IS IN SPRINT-2 PHASE

```
SMART CROP PROTECTION.py - C:/Users/PRIYANGA V/Desktop/SMART CROP PROTECTION.py (3.7.4)
File Edit Format Run Options Window Help

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

#Provide your IBM Watson Device Credentials
organization = "fl9pgj"
deviceType = "NodeMCU"
deviceId = "12345"
authMethod="token"
authToken = "oZDx3WdXYxtZ3Ixd-c"

# Initialize GPIO
def myCommandCallback(cmd):
    print("Command received: %s" % cmd.data['command'])
    status=cmd.data['command']
    if status=="sprinkleron":
        print ("sprinkler is on")
    elif status == "sprinkleroff":
        print ("sprinkler is off")
    else :
        print ("please send proper command")

try:
    deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "auth-method": authMethod, "au
    deviceCli = ibmiotf.device.Client(deviceOptions)
    #.....

except Exception as e:
    print("Caught exception connecting device: %s" % str(e))
```

OUTPUT IS GENERATED

```
*Python 3.7.4 Shell*
File Edit Shell Debug Options Window Help

Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 20:34:20) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/PRIYANGA V/Desktop/SMART CROP PROTECTION.py =====
2022-11-19 11:32:15,575 ibmiotf.device.Client INFO Connected successfully: d:fl9pgj:NodeMCU:12345
Published Temperature = 45 C Humidity = 78 % Moisture = 85 % to IBM Watson
Published Temperature = 88 C Humidity = 63 % Moisture = 87 % to IBM Watson
Published Temperature = 83 C Humidity = 89 % Moisture = 97 % to IBM Watson
Published Temperature = 82 C Humidity = 80 % Moisture = 96 % to IBM Watson
Published Temperature = 40 C Humidity = 96 % Moisture = 98 % to IBM Watson
Published Temperature = 88 C Humidity = 68 % Moisture = 91 % to IBM Watson
Published Temperature = 71 C Humidity = 95 % Moisture = 96 % to IBM Watson
```