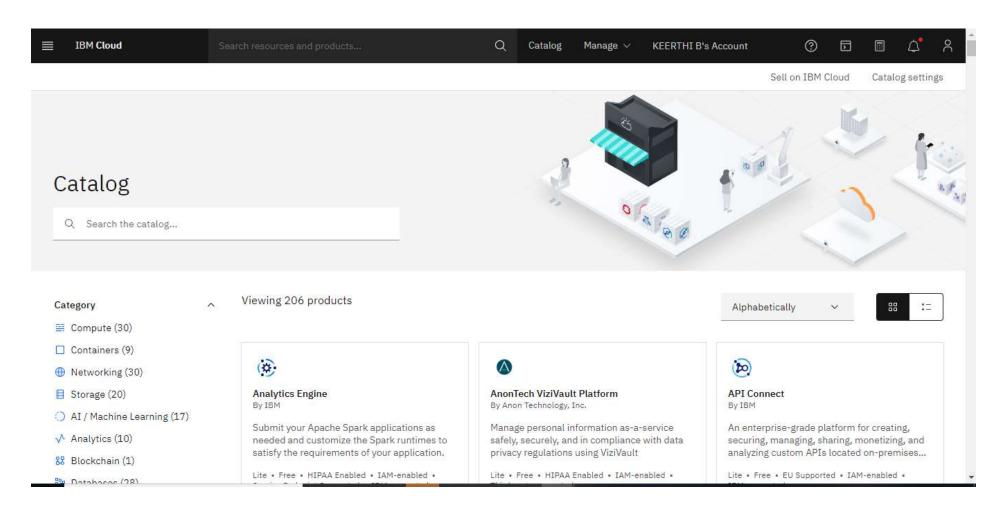
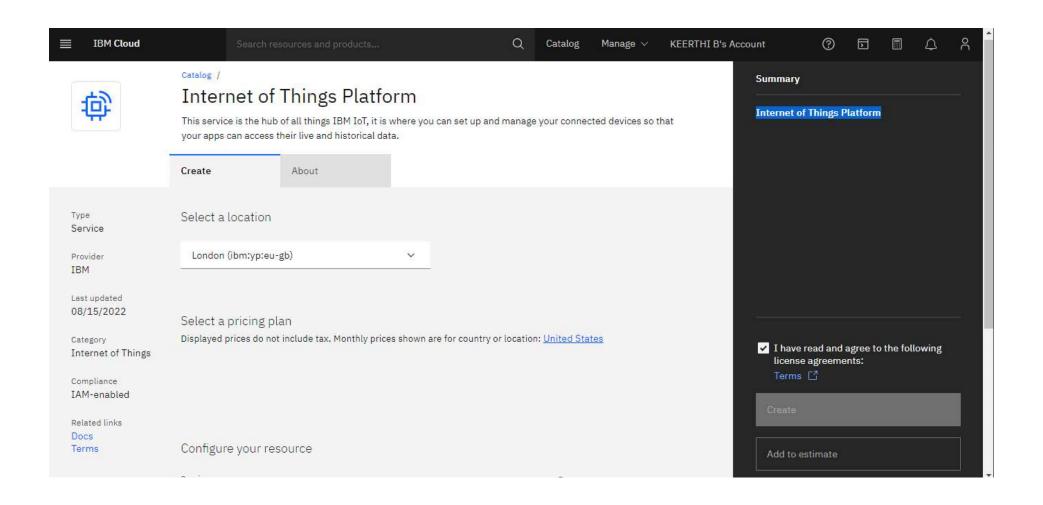
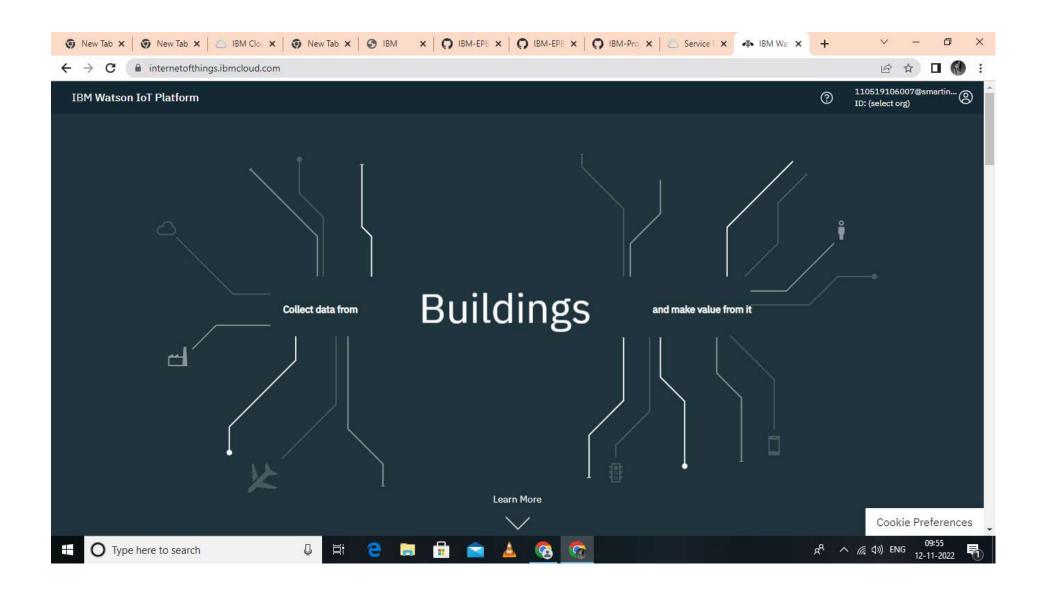
SPRINT 1

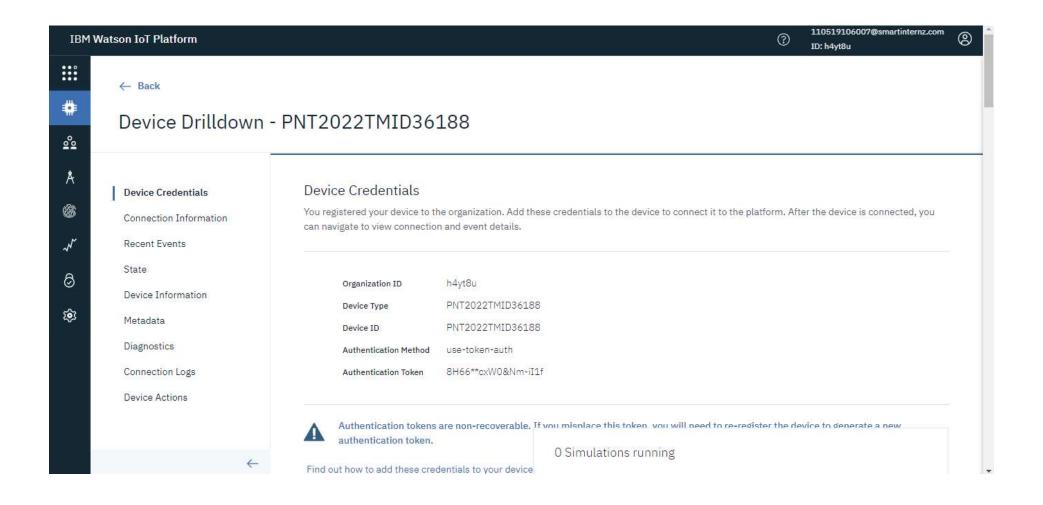
Date	28 October 2022
TEAMID	PNT2022TMID36188
ProjectName	IoT Based smart crop Protection system for agriculture
Maximummark	20marks







Devicecredentialsinformation



Python Program:

```
import\ wiotp.sdk.device
import time
import os
import datetime
import random
myConfig = {
"orgId": "h4y8u",
"typeId": "PNT2022TMID36188",
"deviceId": "PNT2022TMID36188",
"auth}:
token": "8H66**cxW0&Nm-iI1f"
}}
client = wiotp.sdk.device.DeviceClient (config=myConfig,logHandlers=None)
client.connect()
```

```
def myCommandCallback (cmd) :
  print("command recevied: %s" % cmd.data
 if cmd.data ['command']== 'MOTOR ON':
  print("MOTOR ON IS RECEIVED")
  elifcmd.data['command']== 'MOTOR OFF':
  print(" MOTOR OFF IS RECEVIED")
  if cmd.command == " set interval":
  if 'interval' not in cmd.data:
print(" Error - command is missing required information: 'interval'")
  else:
  interval = cmd.data['interval']
  elifcmd.command == "print":
 if 'message' not in cmd.data:
  print("Error - command is missing required information: 'message'")
  else:
  output=cmd.data['message']
```

```
print (output)
while True:
soil=random.randint (0,100)
temp=random.randint (-20, 125)
hum=random.randint (0, 100)
myData={'soil moisture': soil, 'temperature':temp, 'humidity':hum}
client.publishEvent (eventId="status", msgFormat="json", data=myData,
qos=0 ,onPublish=None)
print ("Published data Successfully: %s", myData)
time.sleep (2)
client.commandCallback = myCommandCallback
client.disconnect
```

OUTPUT:



Program Output:

```
2022-11-19 11:00:51,934 wiotp.sdk.device.client.DeviceClient INFO
Published data Successfully: %s ('temperature': 14, 'humidity': 47)
Published data Successfully: %s ('temperature': 109, 'humidity': 95)
2022-11-19 11:00:54.077 wiotp.sdk.device.client.DeviceClient ERROR
2022-11-19 11:00:56,629 wiotp.sdk.device.client.DeviceClient INFO
Published data Successfully: %s ('temperature': -19, 'humidity': 8)
Published data Successfully: %s ('temperature': 88, 'humidity': 7)
2022-11-19 11:00:59.397 wiotp.sdk.device.client.DeviceClient ERROR
2022-11-19 11:01:01.518 wiotp.sdk.device.client.DeviceClient INFO
Published data Successfully: %s {'temperature': 103, 'humidity': 86}
Published data Successfully: %s ('temperature': 73, 'humidity': 87)
2022-11-19 11:01:04.939 wiotp.sdk.device.client.DeviceClient ERROR
2022-11-19 11:01:08.827 wiotp.sdk.device.client.DeviceClient INFO
Published data Successfully: %s ('temperature': 75, 'humidity': 33)
Published data Successfully: %s ('temperature': 113. 'humidity': 84)
2022-11-19 11:01:11,150 wiotp.sdk.device.client.DeviceClient ERROR
2022-11-19 11:01:13.587 wiotp.sdk.device.client.DeviceClient INFO
Published data Successfully: %s {'temperature': 10. 'humidity': 85}
Published data Successfully: %s {'temperature': 107, 'humidity': 58}
2022-11-19 11:01:17.117 wiotp.sdk.device.client.DeviceClient ERROR
2022-11-19 11:01:19.146 wiotp.sdk.device.client.DeviceClient INFO
Published data Successfully: %s {'temperature': 65, 'humidity': 45}
Published data Successfully: %s ('temperature': 28, 'humidity': 89)
2022-11-19 11:01:22.551 wiotp.sdk.device.client.DeviceClient ERROR
2022-11-19 11:01:25.863 wiotp.sdk.device.client.DeviceClient INFO
Published data Successfully: %s {'temperature': 17. 'humidity': 58}
Published data Successfully: %s {'temperature': -12. 'humidity': 54}
2022-11-19 11:01:28,157 wiotp.sdk.device.client.DeviceClient ERROR
2022-11-19 11:01:30.387 wiotp.sdk.device.client.DeviceClient INFO
Published data Successfully: %s {'temperature': 13, 'humidity': 58}
2022-11-19 11:01:32,539 wiotp.sdk.device.client.DeviceClient ERROR
2022-11-19 11:01:36.830 wiotp.sdk.device.client.DeviceClient INFO
Published data Successfully: %s {'temperature': 12, 'humidity': 36}
2022-11-19 11:01:38,896 wiotp.sdk.device.client.DeviceClient ERROR
2022-11-19 11:01:40.986 wiotp.sdk.device.client.DeviceClient INFO
Published data Successfully: %s ('temperature': 65, 'humidity': 71)
Published data Successfully: %s {'temperature': 111, 'humidity': 75}
Published data Successfully: %s ('temperature': 60, 'humidity': 93)
2022-11-19 11:01:45,426 wiotp.sdk.device.client.DeviceClient ERROR
2022-11-19 11:01:48,767 wiotp.sdk.device.client.DeviceClient INFO
Published data Successfully: %s ('temperature': 58, 'humidity': 87)
```

File Edit Shell Debug Options Window Help

```
Published data Successfully: %s ('temperature': 68, 'humidity': 16)
2022-11-19 11:09:28,333 wiotp.sdk.device.client.DeviceClient ERROR
                                                                       Unexpected disconnect from IBM Watson IoT Platform: 7
2022-11-19 11:09:35,913 wiotp.sdk.device.client.DeviceClient INFO
                                                                        Connected successfully: d:rlnll3:SathyaPriya:2609
Published data Successfully: %s ('temperature': 59, 'humidity': 46)
Published data Successfully: %s ('temperature': 48, 'humidity': 86)
Published data Successfully: %s ('temperature': 116, 'humidity': 35)
                                                                        Unexpected disconnect from IBM Watson IoT Platform: 7
2022-11-19 11:09:40.653 wiotp.sdk.device.client.DeviceClient ERROR
2022-11-19 11:09:48,401 wiotp.sdk.device.client.DeviceClient INFO
                                                                        Connected successfully: d:rlnll3:SathyaPriya:2609
Published data Successfully: %s ('temperature': 63, 'humidity': 94)
Published data Successfully: %s ('temperature': 72, 'humidity': 56)
Published data Successfully: %s ('temperature': 91, 'humidity': 47)
2022-11-19 11:09:53,728 wiotp.sdk.device.client.DeviceClient ERROR
                                                                       Unexpected disconnect from IBM Watson IoT Platform: 7
2022-11-19 11:10:00,012 wiotp.sdk.device.client.DeviceClient INFO
                                                                        Connected successfully: d:rlnll3:SathyaPriva:2609
Published data Successfully: %s {'temperature': 90, 'humidity': 80}
Published data Successfully: %s ('temperature': -6, 'humidity': 93)
Published data Successfully: %s ('temperature': 117, 'humidity': 78)
Published data Successfully: %s ('temperature': 83, 'humidity': 88)
Published data Successfully: %s ('temperature': 34, 'humidity': 20)
Published data Successfully: %s ('temperature': 25, 'humidity': 48)
Published data Successfully: %s {'temperature': 95, 'humidity': 53}
Published data Successfully: %s {'temperature': 56, 'humidity': 74}
Published data Successfully: %s {'temperature': 27, 'humidity': 11}
Published data Successfully: %s ('temperature': 12, 'humidity': 94)
Published data Successfully: %s ('temperature': 75, 'humidity': 84)
Published data Successfully: %s {'temperature': 123, 'humidity': 75}
Published data Successfully: %s {'temperature': 107, 'humidity': 77}
Published data Successfully: %s {'temperature': 64, 'humidity': 93}
Published data Successfully: %s {'temperature': 9, 'humidity': 97}
Published data Successfully: %s {'temperature': 119, 'humidity': 20}
Published data Successfully: %s {'temperature': -6, 'humidity': 19}
Published data Successfully: %s {'temperature': 55, 'humidity': 94}
Published data Successfully: %s {'temperature': 66, 'humidity': 28}
Published data Successfully: %s {'temperature': 58, 'humidity': 97}
Published data Successfully: %s {'temperature': 93. 'humidity': 61}
Published data Successfully: %s {'temperature': 92, 'humidity': 100}
Published data Successfully: %s ('temperature': 116, 'humidity': 55)
Published data Successfully: %s {'temperature': 13, 'humidity': 63}
Published data Successfully: %s {'temperature': -17, 'humidity': 27}
Published data Successfully: %s {'temperature': -2, 'humidity': 63}
Published data Successfully: %s ('temperature': 52, 'humidity': 6)
Published data Successfully: %s {'temperature': -8, 'humidity': 25}
Published data Successfully: %s {'temperature': 68, 'humidity': 86}
```

Ln: 117 Col: 116