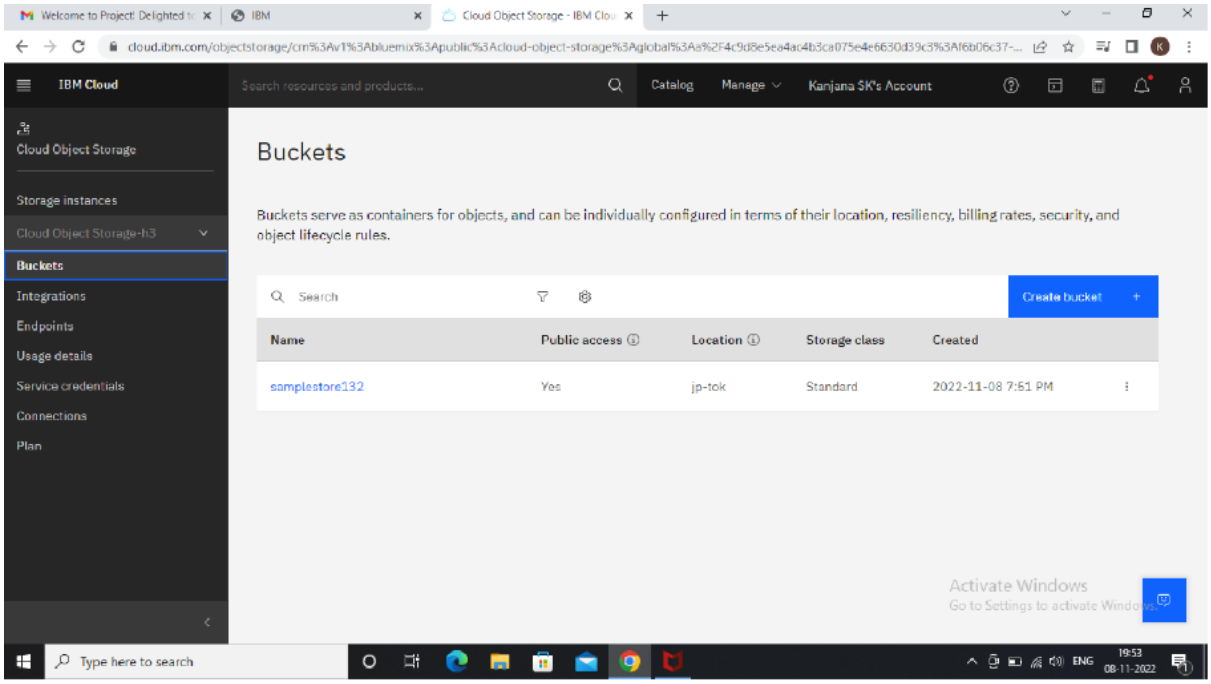
IOT Based Smart Crop Protection System for Agriculture

Team Id – PNT2022TMID52016

Sprint – 4

Create a cloud object storage device



Develop a python code

```
import time
import os
import datetime
import random
myConfig = {
 "identity": {
 "orgId": "hjSfmy",
 "typeId": "Devicelk",
 "deviceId": "67890"
```

```
 },
 "auth": {
 "token": "87654321"
 }
}
client = wiotp.sdk.device.DeviceClient (config=myConfig, logHandlers=None)
client.connect ()
def myCommandCallback (cmd) :
 print ("Message received from IBM IoT Platform: %s" %
cmd.data['command'])
 m=cmd.data['command']
 if (m=="motoron"):
 print ("Motor is switched on")
 elif (m=="motoroff"):
 print ("Motor is switched OFF")
 print (" ")
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 ()

MIT App inventor to design the app