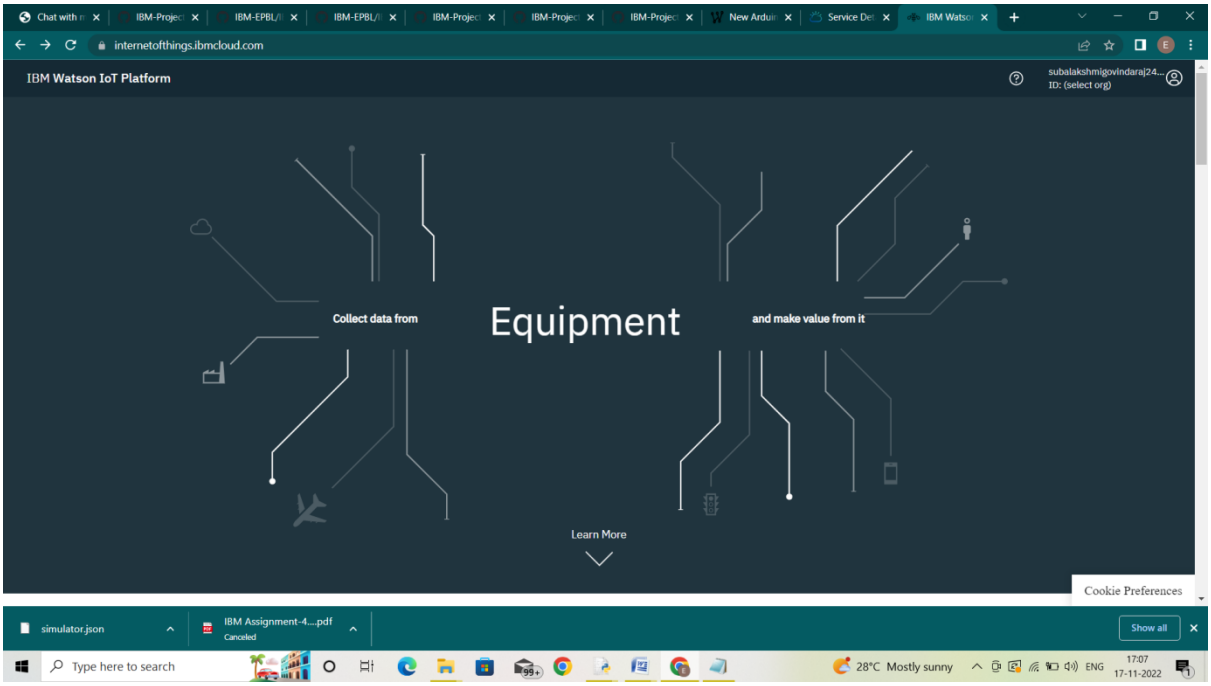
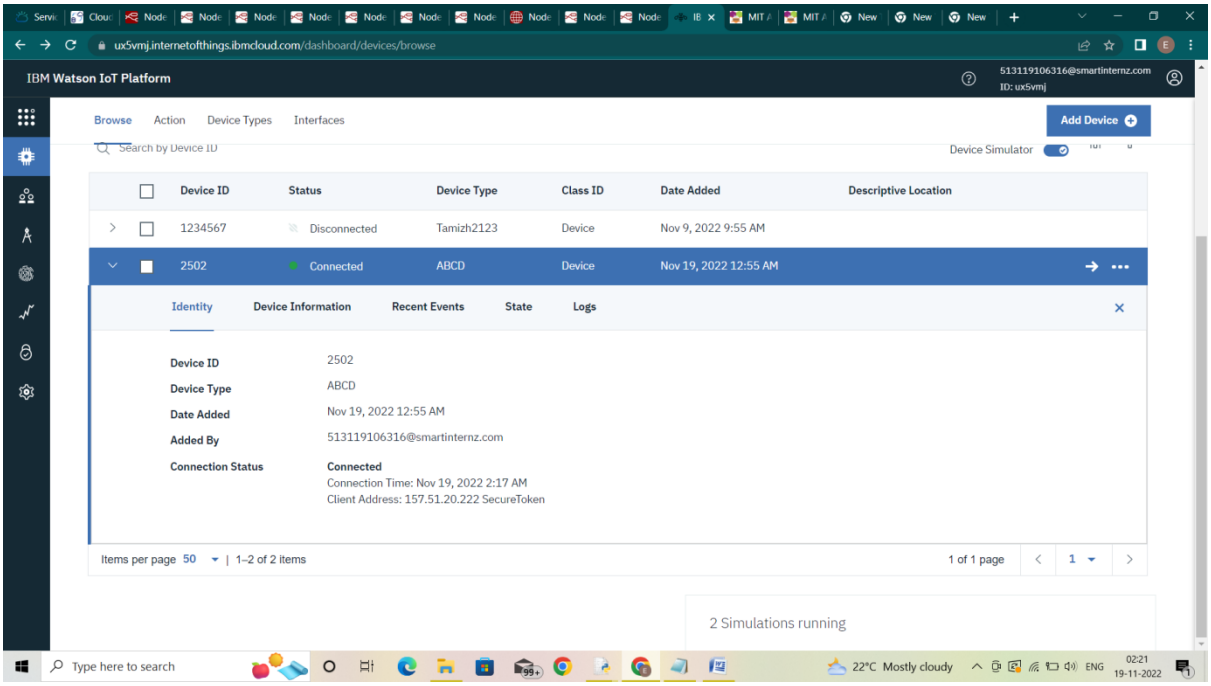
Project Development –Delivery of Sprint 1

Date	17-11-2022
Team ID	PNT2022TMID29745
Project title	IoT Based Safety Gadget For Child Safety Montioring and Notification

Creating and Connecting IBM cloud for Project and Python Code



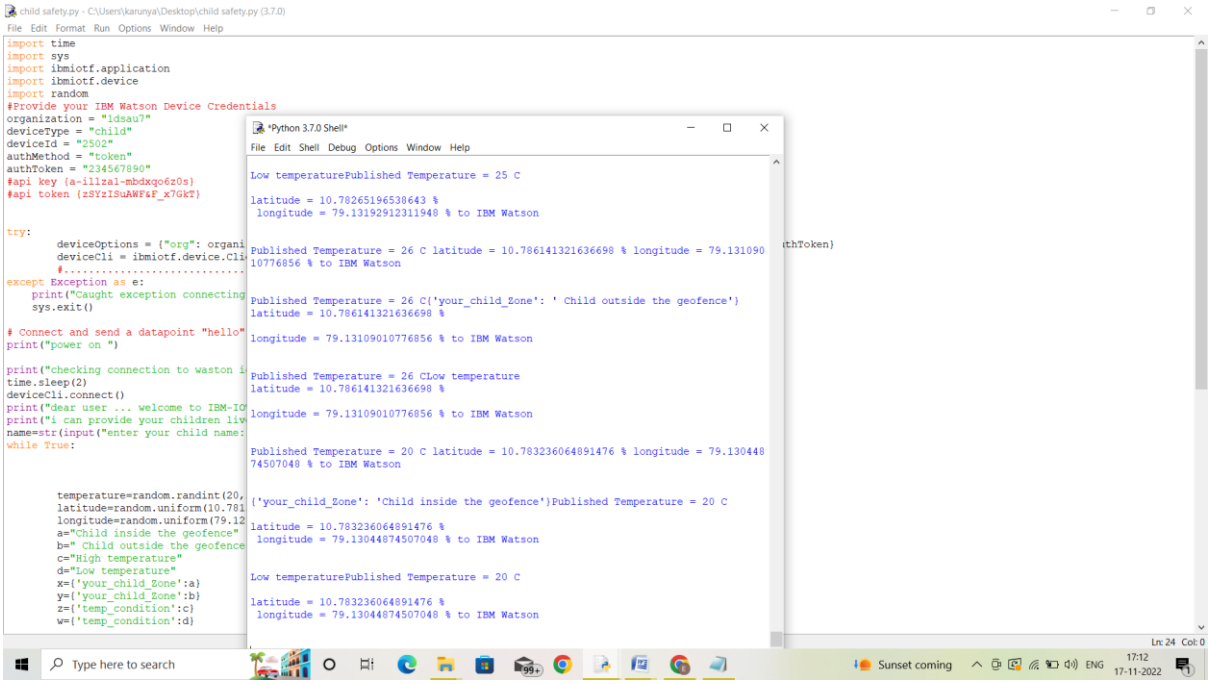


Python code:

```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson Device Credentials
organization = "1dsau7"
deviceType = "child"
deviceId = "2502"
authMethod = "token"
authToken = "234567890"
#api key {a-illza1-mbdxqo6z0s}
#api token {zSYzISuAWF&F_x7GkT}


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()

# Connect and send a datapoint "hello" with value "world" into the cloud
as an event of type "greeting" 10 times
print("power on ")

print("checking connection to waston iot...")
time.sleep(2)
deviceCli.connect()
print("dear user ... welcome to IBM-IOT ")
print("i can provide your children live location and temperature ")
name=str(input("enter your child name:"))
while True:



        temperature=random.randint(20,50)#random temperature for your
child
        latitude=random.uniform(10.781377,10.78643)#random latitude for
your child
        longitude=random.uniform(79.129113,79.134014)#random longitude
for your child
        a="Child inside the geofence"
        b=" Child outside the geofence"
        c="High temperature"
        d="Low temperature"
        x={'your_child_Zone':a}
        y={'your_child_Zone':b}
        z={'temp_condition':c}
        w={'temp_condition':d}




        data = { 'temp' : temperature, 'lat':
latitude,'lon':longitude,'name':name }
        #print data
        def myOnPublishCallback():
          print ("Published Temperature = %s C" % temperature, "latitude =
%s %%" % latitude, "longitude = %s %%" % longitude, "to IBM
```

```
Watson")
        print("\n")
      success = deviceCli.publishEvent("IoTSensorgpsdata", "json", data,
qos=0, on_publish=myOnPublishCallback)
      if latitude>=10.78200 and latitude<=10.786000 and longitude
>=79.130000 and longitude<=79.133000:

deviceCli.publishEvent("IoTSensorgpsdata","json",data=x,qos=0,on_publi
sh=myOnPublishCallback)
            print(x)
            print("\n")
      else:

deviceCli.publishEvent("IoTSensorgpsdata","json",data=y,qos=0,on_publi
sh=myOnPublishCallback)
            print(y)
            print("\n")

      if (temperature>35):

deviceCli.publishEvent("IoTSensorgpsdata","json",data=z,qos=0,on_publi
sh=myOnPublishCallback)
            print(c)
            print("\n")
      else:

deviceCli.publishEvent("IoTSensorgpsdata","json",data=w,qos=0,on_publ
ish=myOnPublishCallback)
            print(d)
            print("\n")
      if not success:
            print("Not connected to IoTF")
            print("\n")
      time.sleep(3)
# Disconnect the device and application from the cloud
deviceCli.disconnect()
```



Connecting IBM Watson and python Code: