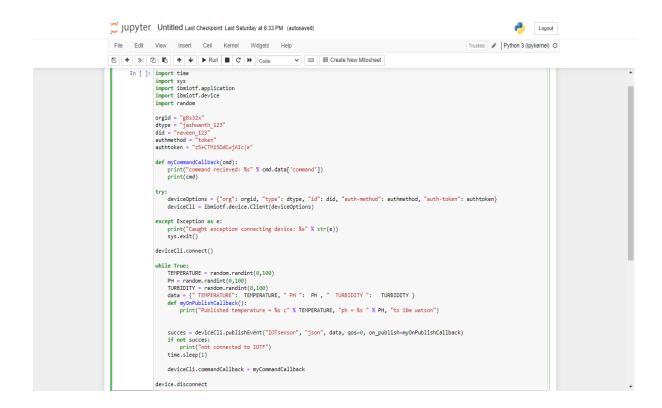
Project Development Phase Sprint-2

Team ID	PNT2022TMID22083
Project Name	Real-Time River Water Quality Monitoring and Control System

Developed the python script:

Developed the python script to connect the iot device with the python script.



Python code:

import time

import sys

import ibmiotf.application

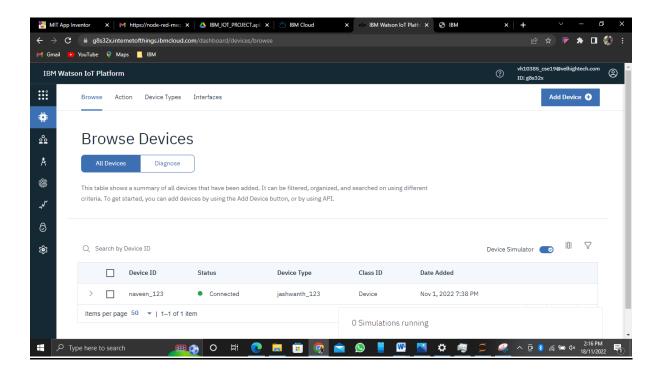
import ibmiotf.device

import random

orgid = "g8s32x"

```
dtype = "jashwanth_123"
did = "naveen 123"
authmethod = "token"
authtoken = "z5+CTM15DdCwjAlc(e"
def myCommandCallback(cmd):
  print("command recieved: %s" % cmd.data['command'])
 print(cmd)
try:
  deviceOptions = {"org": orgid, "type": dtype, "id": did, "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()
deviceCli.connect()
while True:
 TEMPERATURE = random.randint(0,100)
  PH = random.randint(0,100)
 TURBIDITY = random.randint(0,100)
  data = {" TEMPERATURE": TEMPERATURE, " PH ": PH , " TURBIDITY ": TURBIDITY }
 def myOnPublishCallback():
    print("Published temperature = %s c" % TEMPERATURE, "ph = %s " % PH, "to ibm
watson"
   succes = deviceCli.publishEvent("IOTsensor", "json", data, qos=0,
on_publish=myOnPublishCallback)
  if not succes:
    print("not connected to IOTF")
 time.sleep(1)
 deviceCli.commandCallback = myCommandCallback
device.disconnect
```

Connected the IBM IOT WATSON platform with python code:



Transmitted the datas from python code to ibm iot Watson platform:

