Team ID	PNT2022TMID11080
Project Name	Project – IOT Based Real – time River Water Quality Monitoring and Control System

```
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  import random import time
  import sys
import ibmiotf.application
import ibmiotf.device
  # Provide your IBM Watson Device Credentials
  organization = "mfptfh" # repalce it with organization ID
deviceType = "NodeMCU" # replace it with device type
deviceId = "19141" # repalce with device id
authMethod = "use-token-auth"
authToken = "1914137383010209" # repalce with token
  def myCommandCallback(cmd):
    print("Command received: %v" % cmd.data['command'])
    status=cmd.data['command']
    if status == 'lighton':
        print("LIGHT ON")
    iff status == 'lightoff':
        print("LIGHT OFF")
    else:
             print ("please send proper command")
  except Exception as *:
    print("Gaught exception connecting device: %s" % str(e))
    sys.exit()
  deviceCli.connect()
  while True:
pH = random.randint(0,100)
                                                                                                                                                                                                                                      Let 1 Cold
 File Edit Format Run Options Window Help
     print ("LIGHT OFF")
            print ("please send proper command")
except Exception as e:
    print("Caught exception connecting device: %s" % str(e))
    sys.exit()
deviceCli.connect()
while True:
    pH = random.randint(0,100)
    conductivity = random.randint(0,100)
    T = random.randint(0,100)
    oxygen = random.randint(0,100)
    oxygen = random.randint(0,100)
    turbidity = random.randint(0,100)
    is Send Temperature & Humidity to IRM Watson
    data = ('temperature': T,'ph'rpH,'conductivity':conductivity,'oxygen':oxygen,"turbidity":turbidity)
     # print data
daf myOsPublishCallback():
    print("Published data",data, "to IBM Watson")
     success = deviceCli.publishEvent("event", "json", data, 0, myOnFublishCallback)
     if mut success:
print("Not connected to ToTF")
time.sleep(5)
     deviceCli.commandCallback = myCommandCallback
* Disconnect the device and application from the cloud
```

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