Team ID	PNT2022TMID11075	
Project Name	Project – IOT Based Real – time River Water Quality Monitoring and Control	
	System	

```
File Edit Format Run Options Window Help
  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
authWethod = "use-token-auth"
authToken = "1914137383010209" # repalce with token
  def myCommandCallback(cmd):
    print("Command received: %s" % cmd.data['command'])
    status=cmd.data['command']
    if status == 'lighton':
        print("LIGHT ON")
    elif status == 'lightoff':
        print("LIGHT OFF")
    else:
              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)
  File Edit Format Run Options Window Help
      print("LIGHT OFF")
elss:
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)

turbidity = random.randint(0,100)

### Send Temperature & Humidity to IBM Watson

data = {'temperature': T, 'gh':pH, 'conductivity':conductivity, 'oxygen':oxygen, "turbidity":turbidity)
       # print data
daf myOnPublishCallback():
   print("Fublished data",data, "to IBM Watson")
```

success = deviceCli.publishEvent("ovent", "json", data, 0, myOnFublishCallback)

print("Not connected to ToTF")
time.sleep(5)

deviceCli.commandCallback = myCommandCallback
# Disconnect the device and application from the cloud