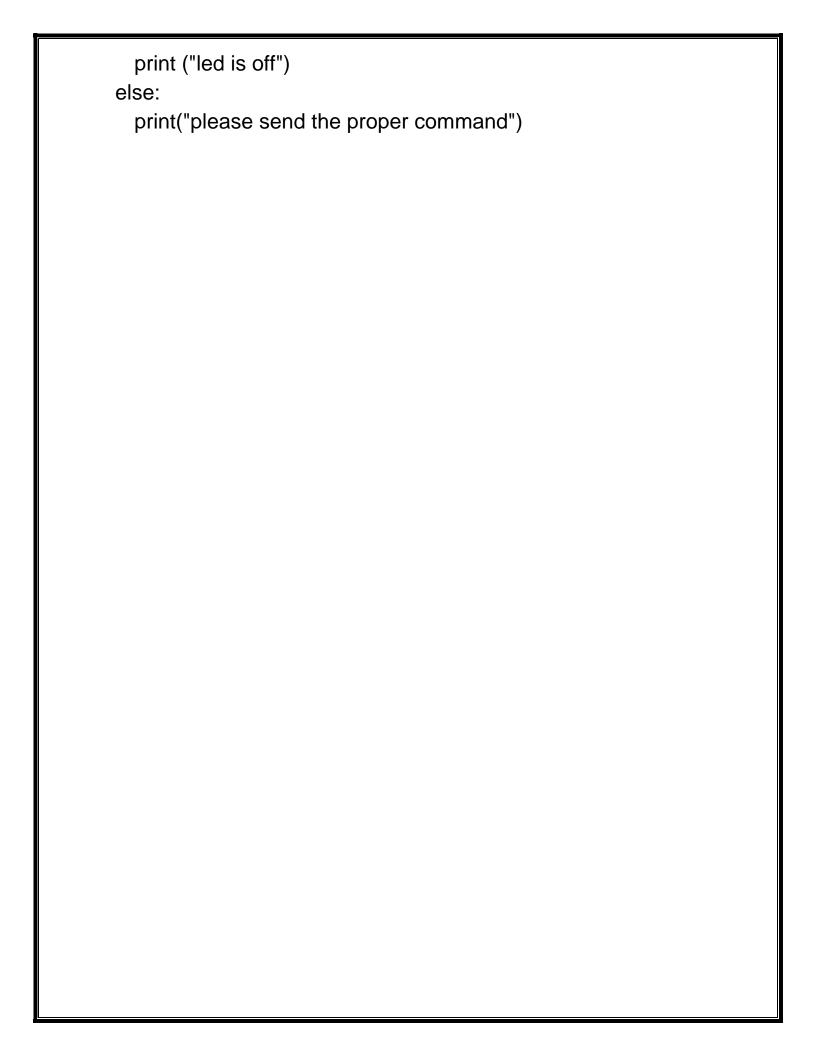
Develop the Python Script Push Data to the Cloud

Team ID	PNT2022TMID05975
Project Name	Real-Time River Water Quality Monitoring and Control System

Python Code:

```
import
time
import sys
import
ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson Device
Credentials organization = "s2qhvm"
deviceType = "Laptop"
deviceId = "0410"
authMethod = "token"
authToken =
"20011004"
# Initialize GPIO
def myCommandCallback(cmd):
 print("Command received: %s" % cmd.data['command'])
 status=cmd.data['command']
  if
   status=="lighton
   ": print ("led is
   on")
 elif
   status=="lightoff":
```



```
#print(cmd)
try:
     deviceOptions = {"org": organization, "type": deviceType, "id":
deviceld, "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
deviceCli.connect()
while True:
    #Get Sensor Data from DHT11
   PH=random.randint(90,110)
   Turbidity=random.randint(60,100)
   data = { 'PH' : PH, 'Turbidity':
   Turbidity } #print data
   def myOnPublishCallback():
     print ("Published PH value = %s C" % PH, "Turbidity= %s %%"
% Turbidity, "to IBM Watson")
   success = deviceCli.publishEvent("IoTSensor", "json", data,
qos=0, on_publish=myOnPublishCallback)
```

