FINAL CODE

```
import time
import sys
import ibmiotf.application
import ibmiotf.device

#Provide your IBM Watson Device Credentials
organization = "6wqo2k"
deviceType = "python"
deviceId = "6056"
authMethod = "token"
authToken = "Visalakshi6056"


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

deviceCli.connect()


while True:

    print("\nInput must given between the range of 0 to 14 \nSensor sensing the ph value is")    #Unavailable of sensors in the wokwi and tinkercad, we give inputs manually

    detect = input()

    Sensing =()

    if detect == "7":     #The ph level of water is sensing by Ph sensor

        Sensing = "Drinking water"

    elif detect == "6":   #The ph level of water is sensing by Ph sensor

        Sensing = "Acid water"

    elif detect == "9":     #The ph level of water is sensing by ph sensor

        Sensing = "Base water"

    else:

        Sensing = "ph is not detected"



    data = { 'Sensing' : Sensing }

        #print data

    def myOnPublishCallback():

        print ("Published Sensing data is %s " % Sensing, "to IBM Watson")
```

```
    success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0,
on_publish=myOnPublishCallback)
    if not success:
        print("Not connected to IoTF")
    time.sleep(1)


# Disconnect the device and application from the cloud
deviceCli.disconnect()
```