UPDATED SPRINT 1

PROJECT DEVELOPMENT PHASE

Date	17 November 2022
Team ID	PNT2022TMID49552
Project Name	Real Time River Water Quality Monitoring and Control system.

FIND THE PH LEVEL OF WATER

Program:

```
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()