

Soil Moisture Sensor  
Moisture sensor is connected to GPIO 26  
Relay for water pump is connected to GPIO 13

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#!/USR/BIN/PYTHON3
IMPORT RPI.GPIO AS GPIO
FROM FIREBASE IMPORT FIREBASE
IMPORT TIME AS TIME
GPIO.SETMODE(GPIO.BCM)
GPIO.SETUP(26, GPIO.IN)
GPIO.SETUP(13, GPIO.OUT)
TRY:
    IF GPIO.INPUT(26) == GPIO.HIGH:
        FIREBASE = FIREBASE.FIREBASEAPPLICATION('HTTPS://KITCHEN-GARDEN-MONITOR.FIREBASEIO.COM')
        RESULT = FIREBASE.POST('/SOIL_CONDITION',{'HIGH':'NO WATER DETECTED!
TURNING ON WATER SYSTEM AND WILL NOTIFY YOU WHEN THE PLANTS HAVE
ENOUGH WATER.'})
    ELSE:
        FIREBASE = FIREBASE.FIREBASEAPPLICATION('HTTPS://KITCHEN-GARDEN-MONITOR.FIREBASEIO.COM')
        RESULT = FIREBASE.POST('/SOIL_CONDITION',{'LOW':'HURRAY..PLANTS HAVE
WATER AND YOUR NEXT SCHEDULLED RUN IS IN 6 HOURS. SEE YOU NEXT TIME :D'})

    WHILE GPIO.INPUT(26) == GPIO.HIGH:
        GPIO.OUTPUT(13, GPIO.HIGH)
        TIME.SLEEP(1)

    GPIO.OUTPUT(13, GPIO.LOW)

    RESULT = FIREBASE.POST('/SOIL_CONDITION',{'LOW':'HURRAY..PLANTS HAVE
WATER AND YOUR NEXT SCHEDULLED RUN IS IN 6 HOURS. SEE YOU NEXT TIME :D'})

    GPIO.CLEANUP()
EXCEPT KEYBOARDINTERRUPT:
    GPIO.CLEANUP()
```