

A plant irrigation system that only waters plants if it has not rained between watering cycles

Initialize variables and GPIO Pins

btn1, btn2, btn3, btn4

Rain Sensor

LCD Screen

days = days between waterings

hours = hours between waterings

mins = minutes between waterings

last_rain = date the program is initially started

function pumpWater(time)

moves the dc motor driving the water pump forward for an amount of time

function checkRain

return bool if raining or not

function getUserInput(max)

collects user input for days, hours and minutes

while user has not pressed btn3

display current num on LCD

if btn1 is pressed and selection >0

subtract 1 to selection

if btn2 is pressed and selection <=max

add 1 to selection

return selection

collect user input

display on LCD 'DAYS'

getUserInput(100)

display on LCD 'HOURS'

getUserInput(24)

display on LCD 'MINUTES'

getUserInput(60)

While True:

display next watering scheduled on LCD

date = use utime to get date

if checkRain == True

last_rain = date

if it has been days + hours + minutes since the last watering AND it has not rained since the last watering

pumpWater