SW Block Diagram

Plant Tunes

class button (partially written)

def __init__

def _setup

def detect_press

def wait_press (wait for button press or release)

def detect_release

def cleanup

class moist_sensor (partially written)

def __init__

def _setup

def read_input (read sensor data)

def determine_key (determine minor/major depending on input)

def check_data (read input again, and change key if needed)

def cleanup

class light_sensor (needs to be written)

def __init__

def _setup

def read_input (read sensor data)

def determine_tempo (determine tempo based on sensor input)

def check_data (read input again, and change tempo)

def cleanup

class cap_touch_sensor (partially written)

def __init__

def _setup

def read_input (read sensor data)

def determine_note (determine note (frequency) based on sensor input)

def check_data (read input again, and change note)

def cleanup

class speaker (needs to be written?)

def __init__

def _setup

def set_key (based on moist_sensor)

def set_tempo (based on light_sensor)

def create_array (create note array based on key)

def play_note (play array at set tempo)

def cleanup