app_main

create shared objects,
start all tasks

buzzer
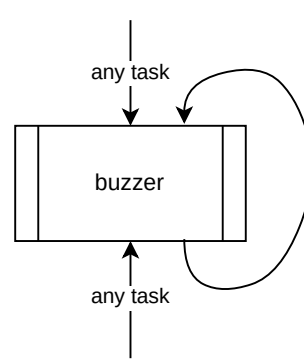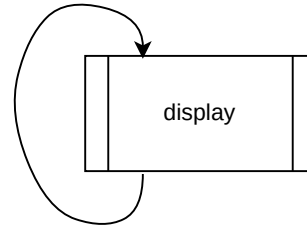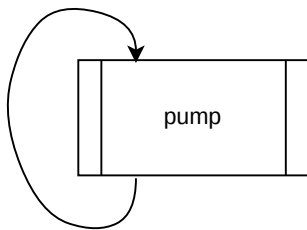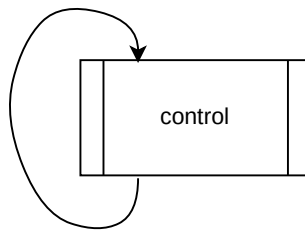
any task

any task

control buzzer on pcb

accepts "beep commands"
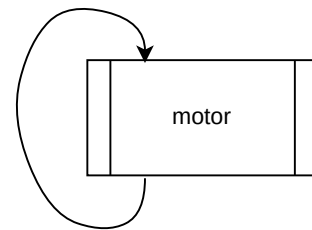globally from any task in a
queue

display

show various stats on display
access to: `control, pump, vfd`

pump

control pump when in pump mode
(pressure, flow, motor speed, valve)
access to: `control, vfd`

control

define current mode using
button as input
access to: `vfd`

motor

when in motor mode (no pump
connected)
simply define set motor speed
using potentiometer
access to `control, vfd`