// GUI

If select

{

------------------------------------------------------

Smart Mode

{

Then

smart Mode

}

------------------------------------------------------

Manual Mode

{

Then

Manual Mode

}

--------------------------------------------------------

Natural Mode

{

Then

Natural Mode

}

}

Smart mode

//variables (Sensors)

Int soil\_humid1

Int soil\_humid2

Int air\_humid1

Int air\_humid2

Int soil\_temp1

Int soil\_temp2

Int air\_temp1

Int air\_temp2

Int light intensity

Int oxygen

Int carbon

//Variable

Soil\_humid

Air\_humid

Soil\_temp

Air\_temp

//Read sensors

Read

Soil\_humid = Soil\_humid1 + Soil\_humid2 / 2

Air\_humid = Air\_humid1 + Air\_humid2 / 2

Soil\_temp = Soil\_temp1 + Soil\_humid2 / 2

Air\_temp = Air\_temp1 + Air\_temp2 / 2

Manual Mode

{

// Cooling Fan ----------------------------(on/off)

// Heater Fan -----------------------------(on/off)

// Humidifier ------------------------------(on/off)

// Sprinklers -------------------------------(on/off)

// Top Panel -------------------------------(open/close)

// Side panel 1 ----------------------------(open/close)

// Side panel 2 ----------------------------(open/close)

// Side panel 3 ----------------------------(open/close)

// Front Panel -----------------------------(open/close)

// Shades -----------------------------------(open/close)

}

Natural Mode

{

// Cooling Fan -----------------------------(off)

// Heater Fan -----------------------------(off)

// Humidifier ------------------------------(off)

// Sprinklers -------------------------------(off)

// Top Panel -------------------------------(open)

// Side panel 1 ----------------------------(open)

// Side panel 2 ----------------------------(open)

// Side panel 3 ----------------------------(open)

// Front Panel -----------------------------(open)

// Shades -----------------------------------(open)

}