Yes

No

Now

Yes

No

Yes

no

yes

closing

Opening

Fully closed next time?

Change appropriate bits

Check case

Fully closed?

Print time

end

Fully open next time?

Change appropriate bits

Check case

Fully open?

Opening or closing?

Rotate Bits

Yes

No

No

Yes

If door fully closed or open

I2C flag on to update info

Start = 1

Clear flag

Start == 0

I2C flag on with write in date and time

Main

HIGH = adc input

ADC flag

Rotate Bits CCW

Rotate Bits CW

Yes

No

Yes

No

Yes

No

Yes

Open Door

Store Time

Turn on related inductors

Is the door fully closed?

Is there still a reading from the plate

Turn on related Inductors

Store time

Close door

Is door fully opened?

Is voltage met on plate?

No

Main

INIT

Sw as variable

Active as variable

P1.2 as SDA

P1.3 as SLC

P5.0 as input

P3.4 – P3.7 as Output

Int High, sw1, sw2, place, I, j, x, FC, FO

Int position, choice, start, done, mPrinted

TB0 as clock

TB0CCR as compare

UCA1 as eUSCI

UCB0 as I2C