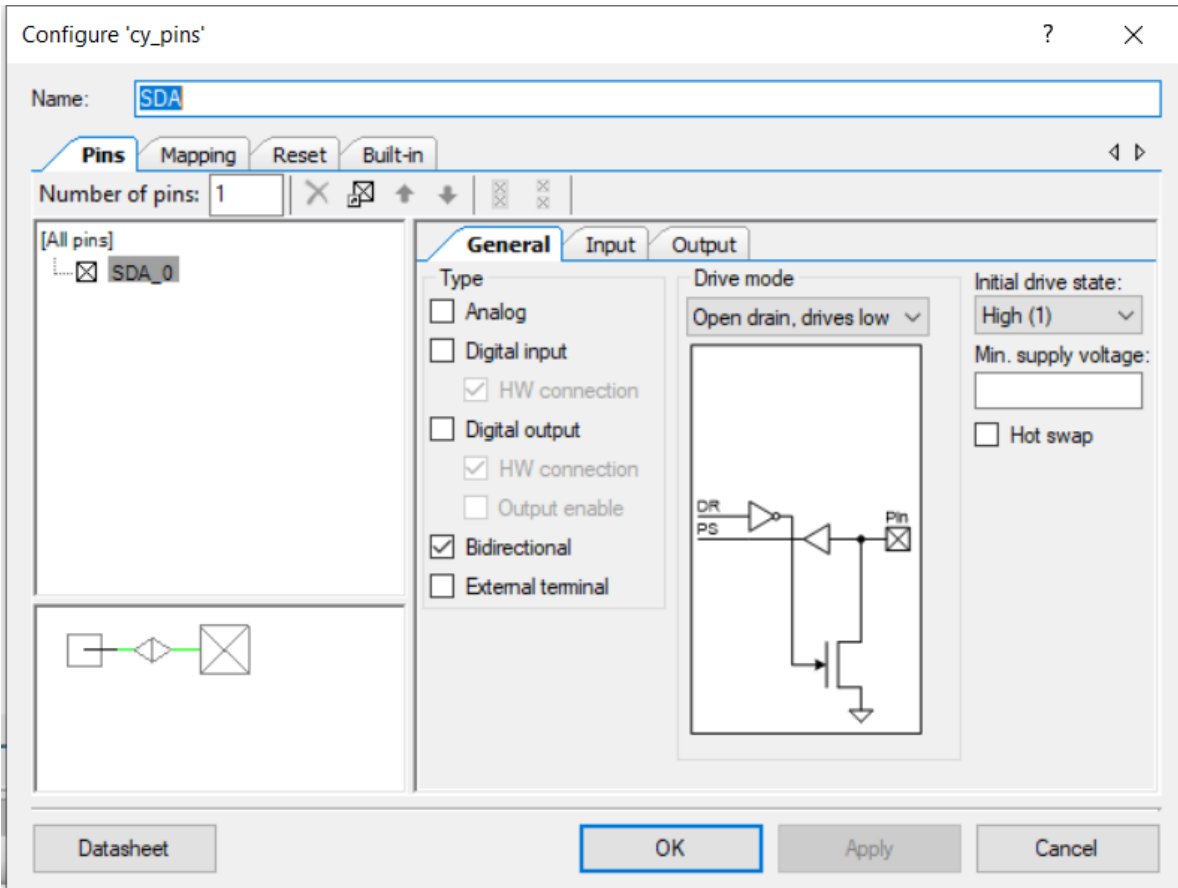
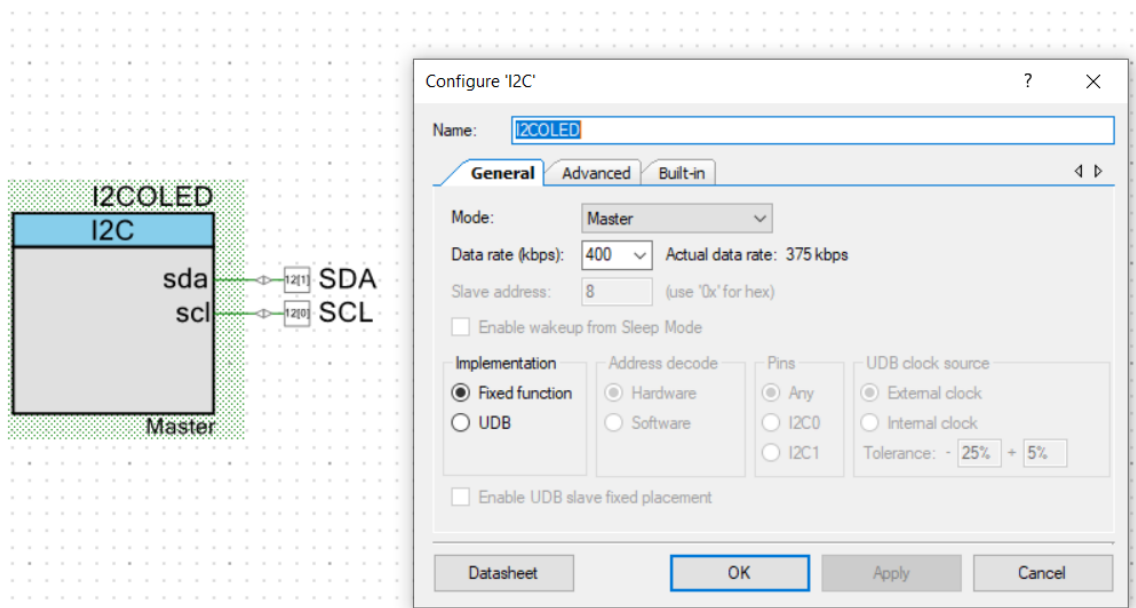


# Configuration of peripheral i2c



Configure 'cy\_pins'

? X

Name:

**Pins** Mapping Reset Built-in

Number of pins:  X [icon] [icon] [icon] [icon]

[All pins]  
... SCL\_0

**General** Input Output

Type

- ☐ Analog
- ☐ Digital input
  - ☒ HW connection
- ☐ Digital output
  - ☒ HW connection
  - ☐ Output enable
- ☒ Bidirectional
- ☐ External terminal

Drive mode  
Open drain, drives low

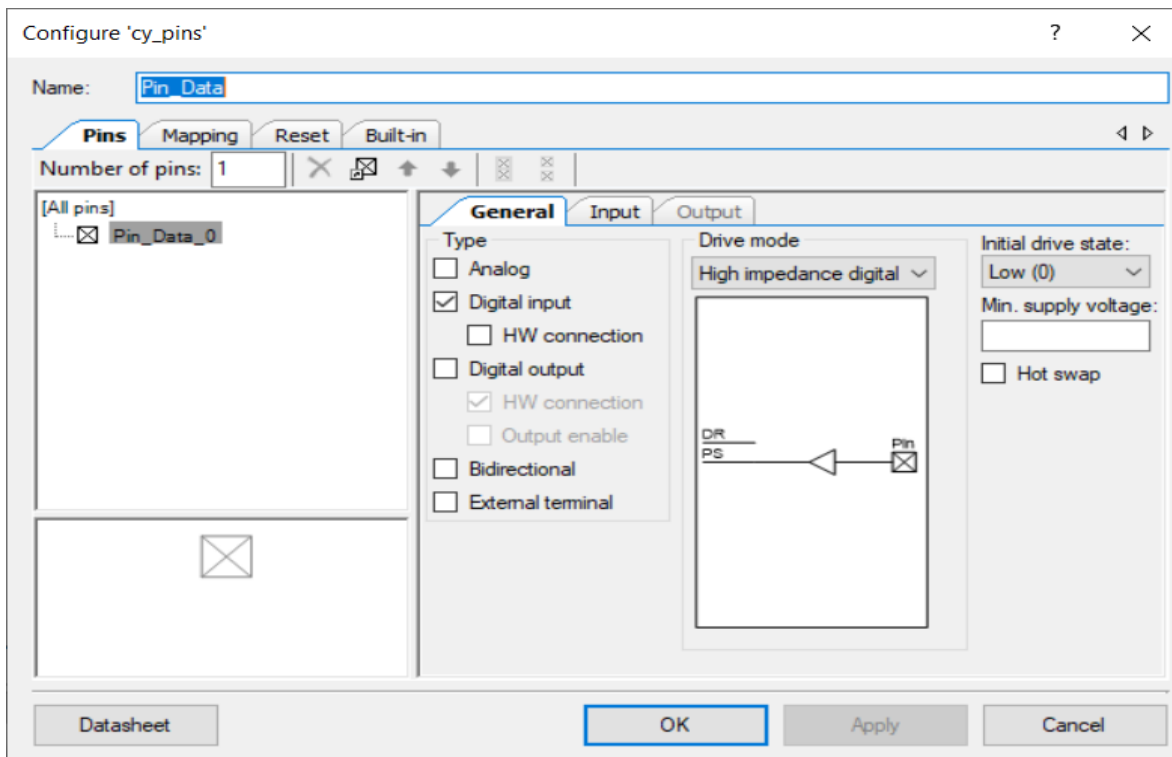
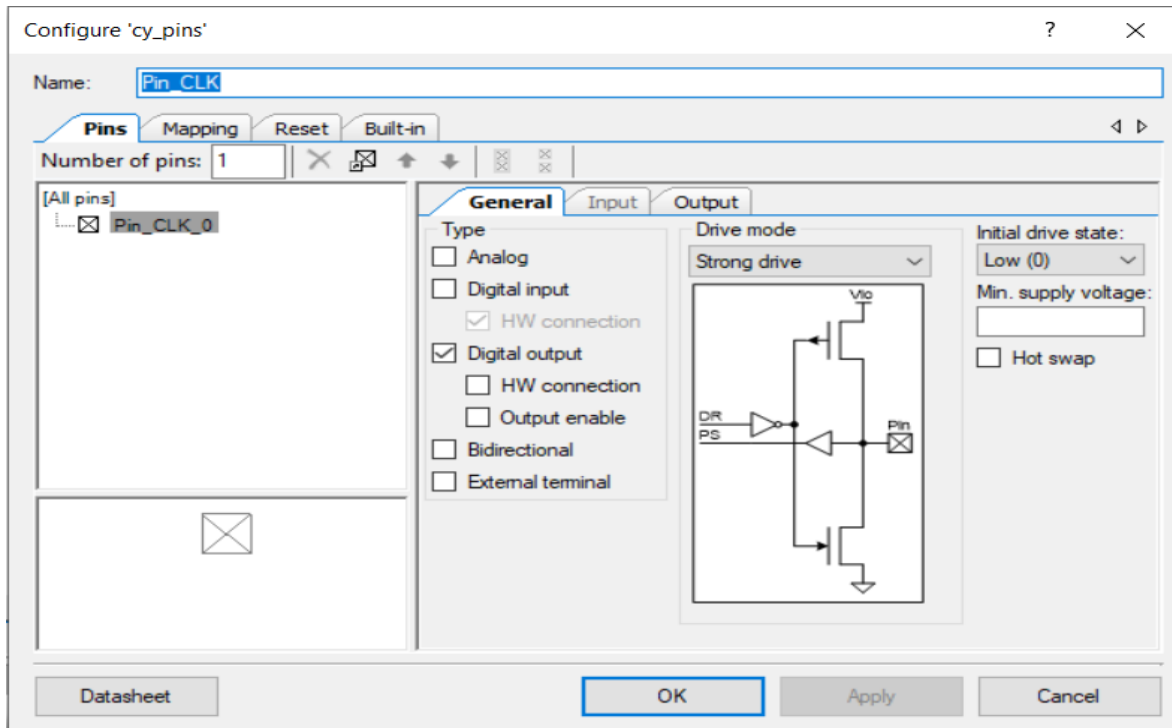
Initial drive state:  
High (1)

Min. supply voltage:

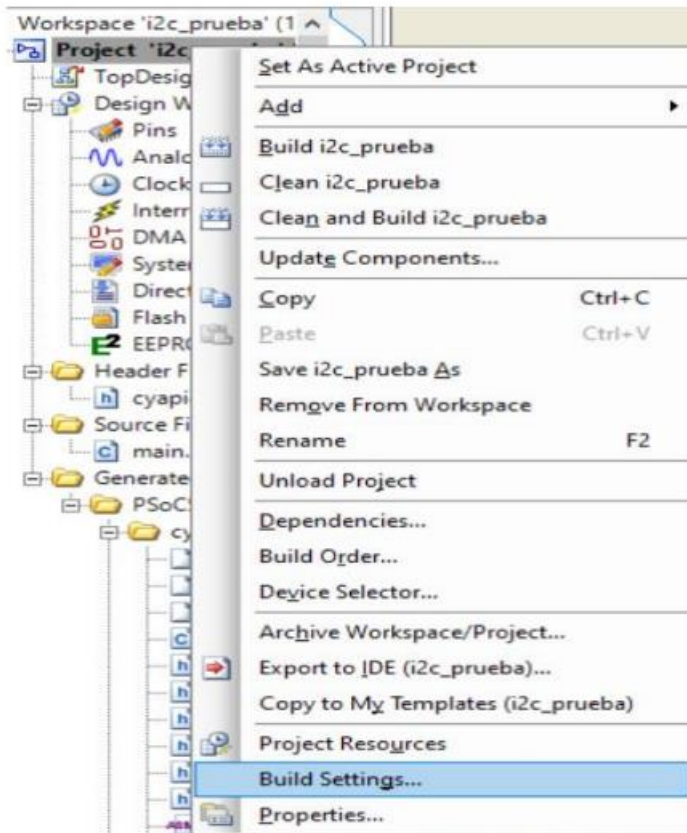
☐ Hot swap

Datasheet OK Apply Cancel

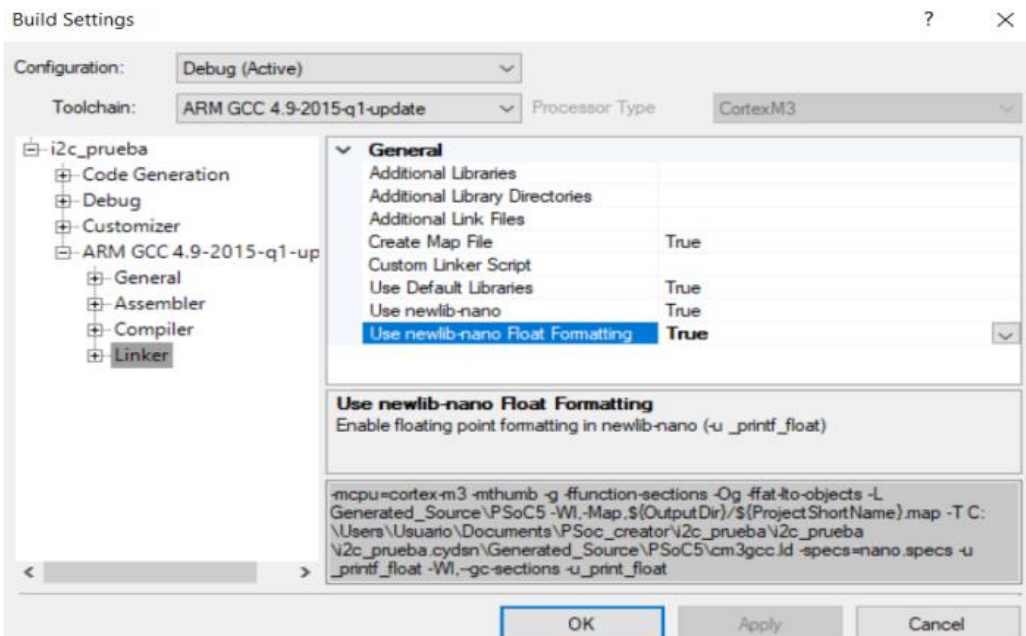
## Configuration of pins for the max6675



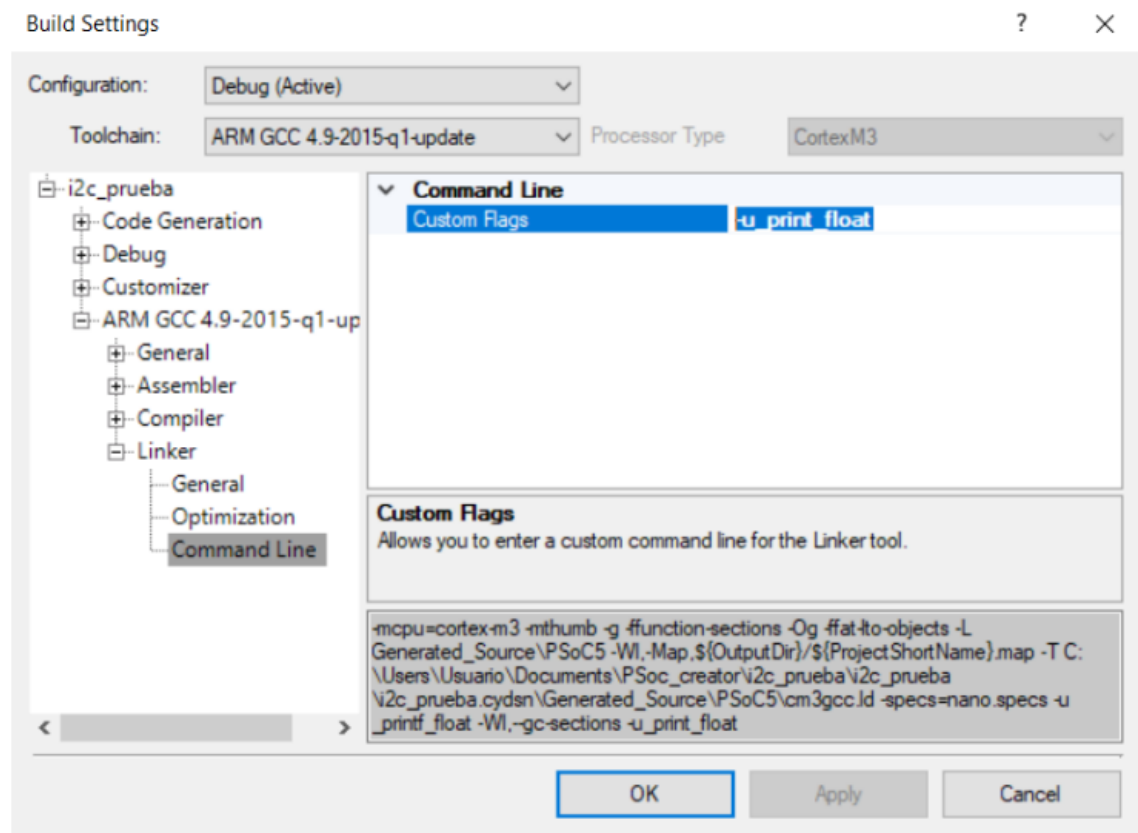
## Fix the sprintf function



## Change False to True

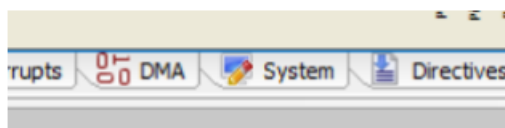


## Write “-u\_print\_float”

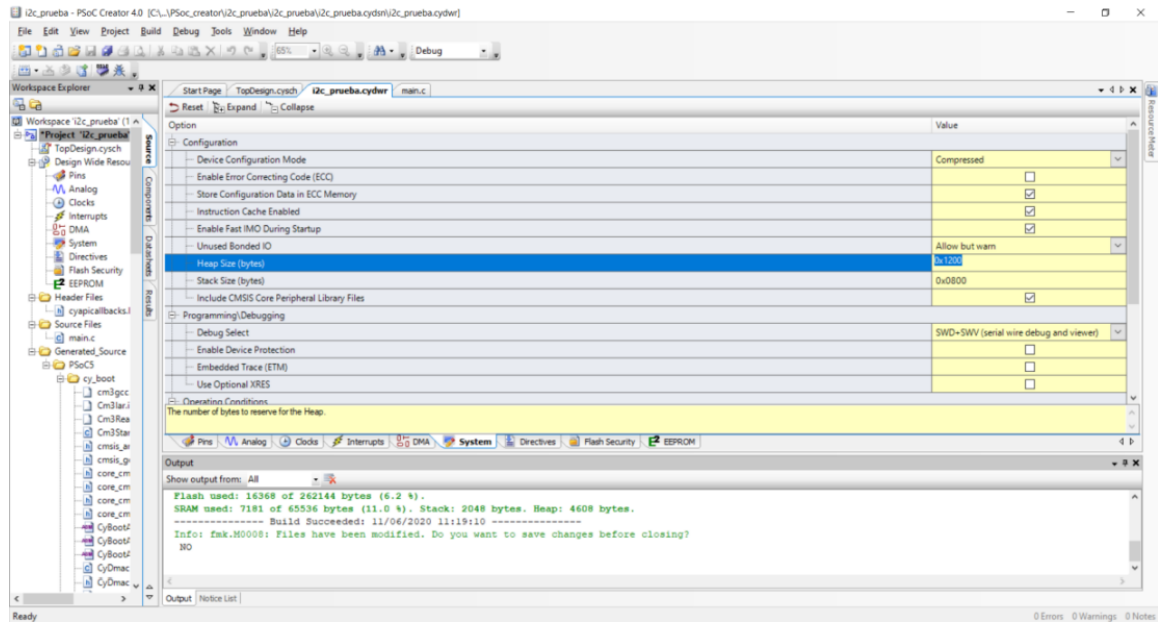


## Apply and OK

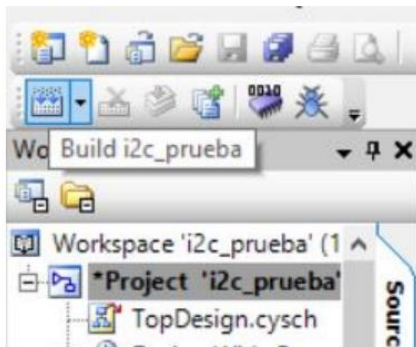
## Go to system



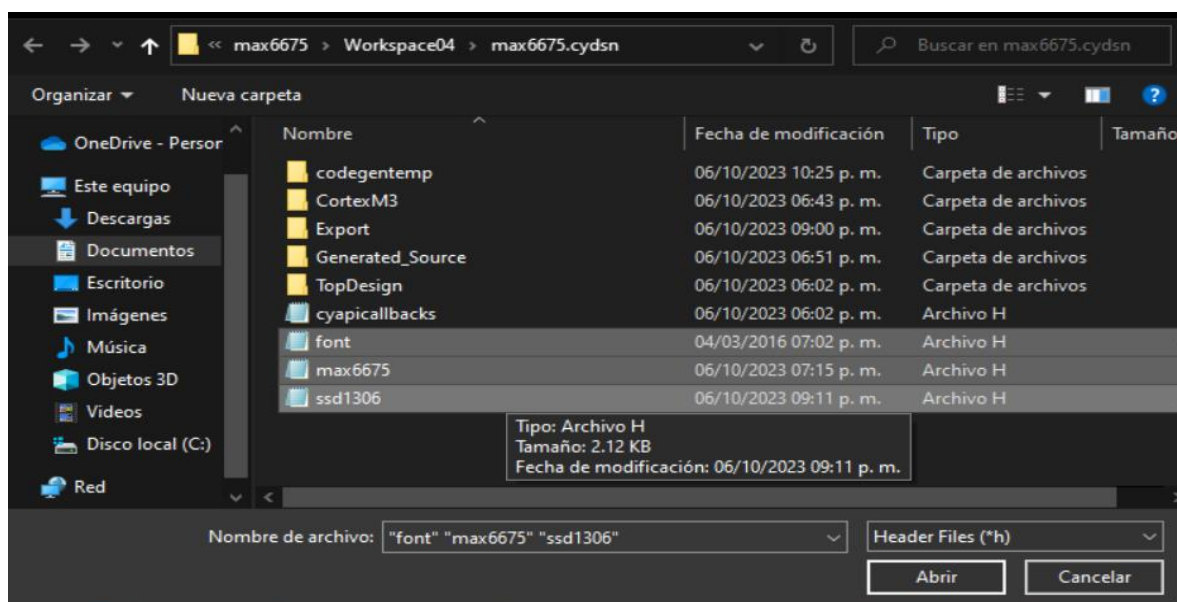
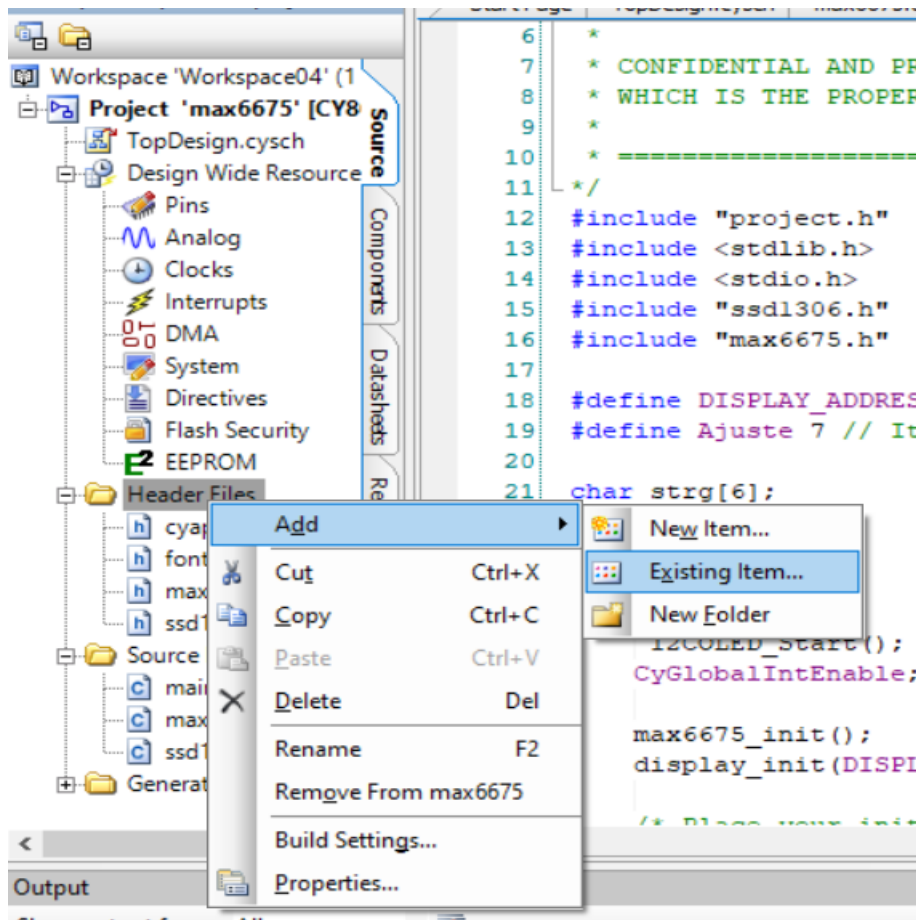
## Change 0x80 to 0x1200 inside heap size bytes

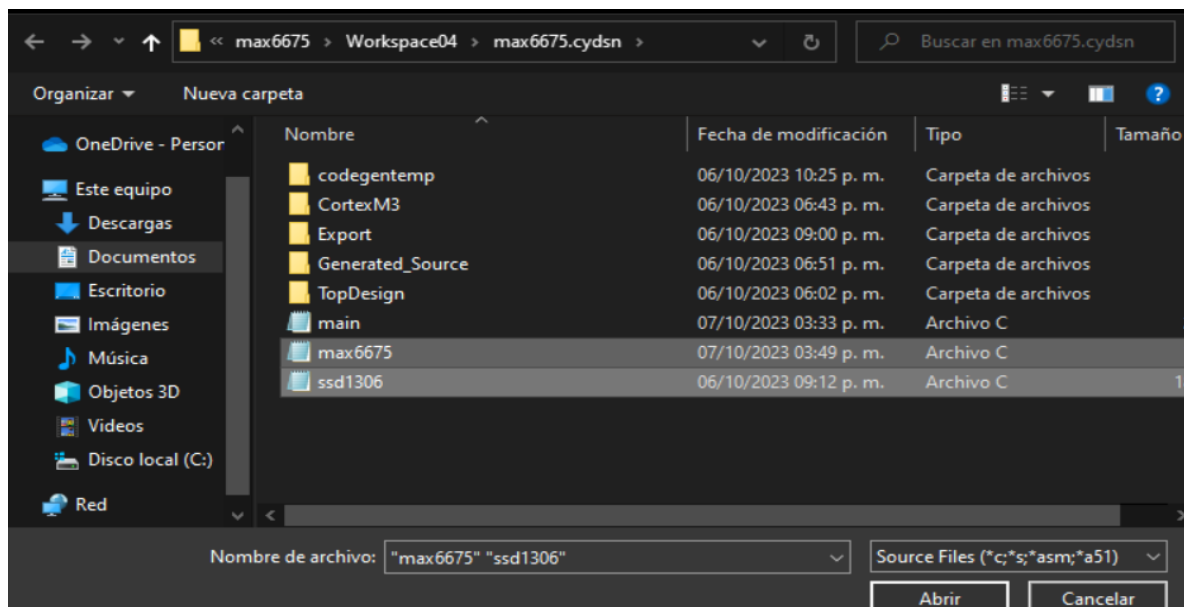
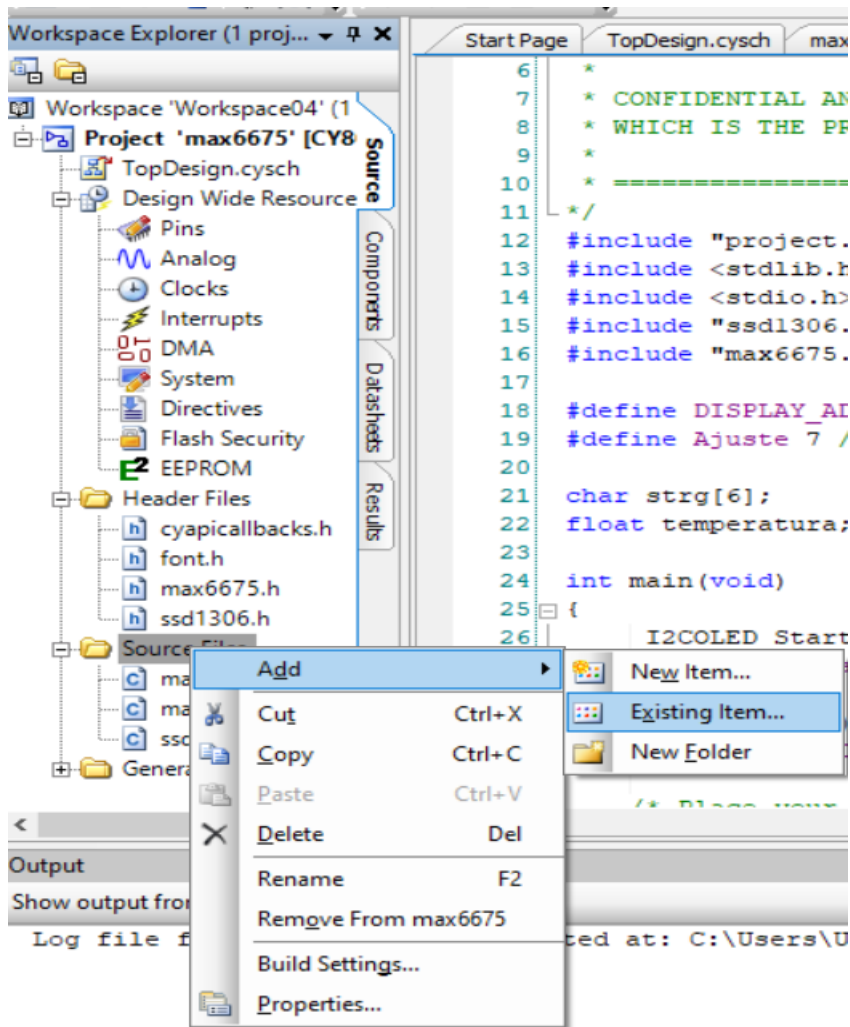


8) build before writing the code so that the necessary files are added to the project



## ADD libraries







## Code

```
#include "project.h"
#include <stdlib.h>
#include <stdio.h>
#include "ssd1306.h"
#include "max6675.h"

#define DISPLAY_ADDRESS 0x3C // 011110+SA0+RW - 0x3C or 0x3D
#define Ajuste 7 // It depends on what your reference is

char strg[6];
float temperatura;

int main(void)
{
    I2COLED_Start();
    CyGlobalIntEnable; /* Enable global interrupts. */

    max6675_init();
    display_init(DISPLAY_ADDRESS);

    /* Place your initialization/startup code here (e.g. MyInst_Start()) */
    gfx_setTextColor(WHITE);

    for (;;)
    {
        /* Place your application code here. */

        temperatura= max6675_read()- Ajuste;
        sprintf(strg,"%0.2f",temperatura);

        display_clear();
        gfx_setTextSize(3);
        gfx_setCursor(0,30);
        gfx_print(strg);
        display_update();
        gfx_setTextSize(2);
        gfx_setCursor(94,8);
        gfx_write(248);
        gfx_write('C');
        display_update();
        CyDelay(600);
    }
}

/* [] END OF FILE */
```