**Documentation OF the Project DST1!**

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The aim of the course is to convey how a modern computer system is structured and how its hardware parts interact with each other and with the software at a low level.

In this course we have started with koppling to HW\_ components (display, keypad, light sensor …..).

We use C program language for at determine weather station such as, Recording of temperature, which is maximum, minimum and average through a week and presentation of logged data.

Then I attached the light sensor to detection of the sun position.

The third thing I set alarm to determine the lower and upper limit of temperature. Alarm will alert at under or over temperature.

Then to simplify testing I created fast, slow and super-fast mode , they simulated by 10 times per second for super-fast mode, one time per second for fast mode and one time per minute for slow mode.

After hard work in fact, I have learned about what means program embedded system, I’m able to identify and briefly describe the hard ware components that a computer system consists of, read and wright a simple C programs for our system and so on.

At the end I want to thank you and I hope that my work will be good.

**Here is Diagram!**

Init\_pins

Init\_pins

Set\_alarm

status

mode

Find\_sun

Statistic

Main\_menue

Welcome\_menue