

**POLYTECHNIC OF TURIN A.Y2021/22**

**Course on Designing Biomedical Programmable Devices**

Contact temperature gauge

**GROUP 17**

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# Project Specifications

The following project requires the realisation of a temperature meter capable of providing the skin temperature when the LM35 sensor is placed in contact with the skin. It must meet the following specifications:

* + Supply voltage: 5V
  + Check the supply voltage at approximately 1s intervals. Should it fall below a certain programmed threshold value, generate a continuous alarm signal with LED:

Val > 4.2V LED off

Val < 4.2V LED on

The status of the LED should indicate the range in which the supply voltage is.

* + Temperature measurement (in degrees Celsius and Fahrenheit) at 500 ms intervals, with

resolution of 0.1 °C and 0.1 °F.

* + Reading the measurement on three seven-segment displays, providing the result in the 30°C and 45°C range.

## Enhancement Options

* + - By using a mechanical switch, one wants to be able to switch the display of the measurement result from Celsius to Fahrenheit and vice versa.
    - Verification of supply voltage with double threshold alarm system:

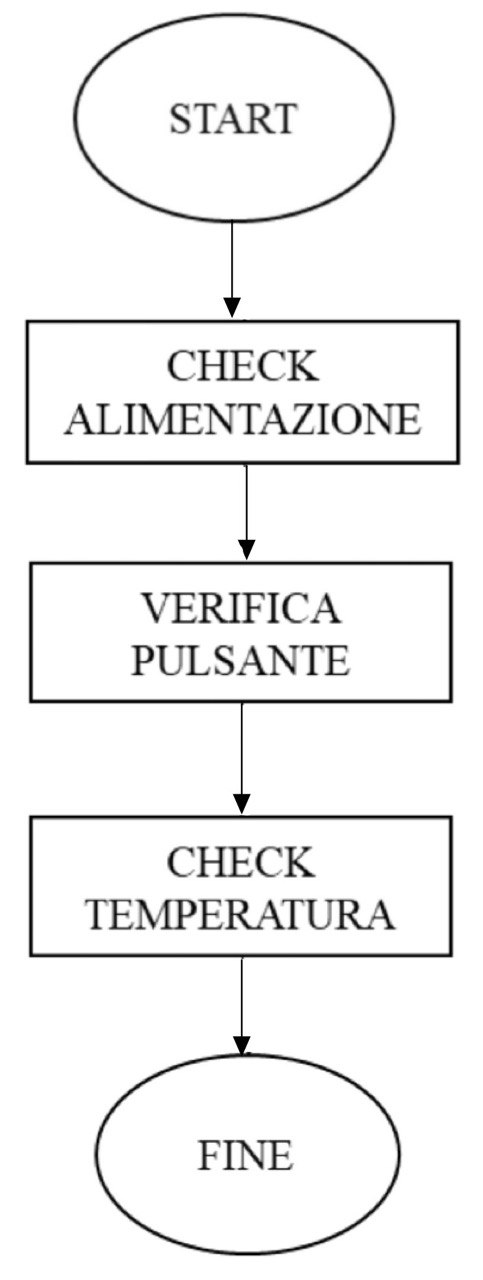
Val > 4.8V LED off

4.8V < Val < 4.2V LED access in flashing mode

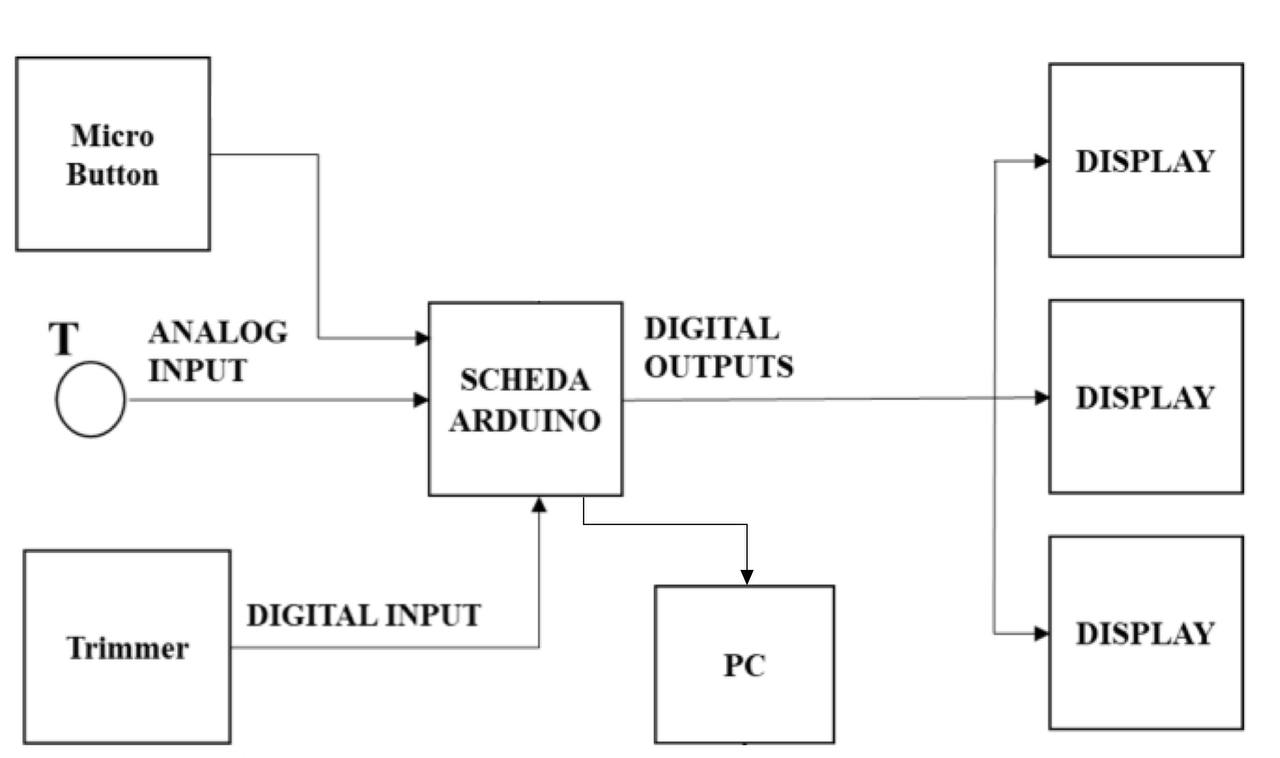
Val < 4.2V LED on

# Hardware and software component block diagram

## Software block diagram

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## Hardware block diagram

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**Trimmer**

**Micro**

**Button**

# Electrical diagram

The circuit was realised on two breadboards of 400 and 830 points.

The operation of the temperature meter is based on the integrated LM35DZ temperature sensor, which is appropriately connected to the ARDUINO UNO REV.3 board. It has an ATmega328P microcontroller inside, which is implemented in such a way that it can process the temperature information, expressed in voltage.

The LM35DZ sensor data sheet shows the following characteristics:

* Current consumption 60µA plus output current
* Maximum output current 10mA
* Output voltage 10mV/°C
* Measuring range -55°C up to 150°C

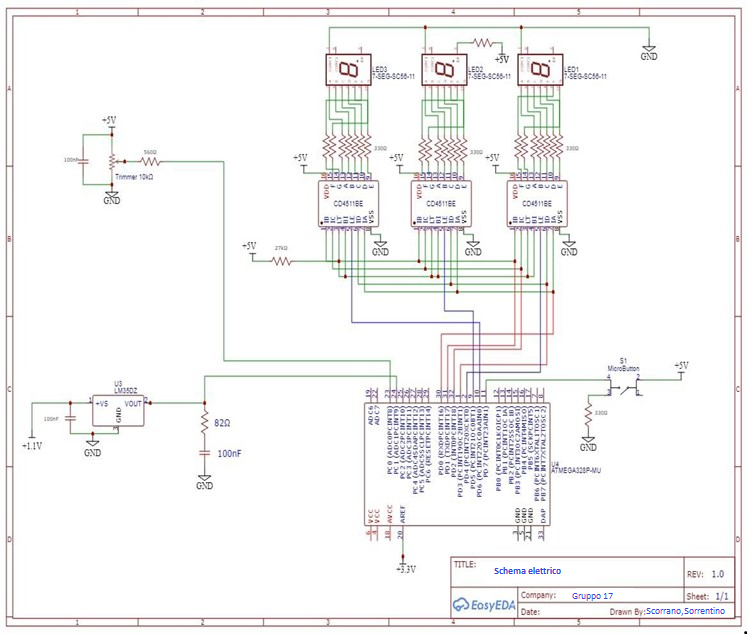
A 100nF bypass capacitor was inserted between the power supply pin and the ground reference of each CD4511BE integrated circuit. This was done in order to guarantee sufficient working voltage to the integrated circuit and to avoid, when the switch is switched, a zero supply due to the instantaneous increase of current in the branch.

In order to maximise the dynamics of the ADC, taking into account the input voltage values received from the sensor (order of hundreds of mV) and to obtain a resolution of 0.1 °C, during the temperature measurement and reading phase, the ADC was set to deliver a supply voltage of 1.1 V and used 10 bits for the conversion of the result.

𝑅𝐴/𝐷 =

1.1 𝑉

210



# Sensor Validation

* + LED alarm activation check: in order to vary the supply voltage supplied by the ADC, an alarm circuit including a potentiometer trimmer has been fitted. Acting on the latter's shaft, the circuit varies the voltage between the slider, connected to a channel of the ADC, and the reference between Vdc and GND, attesting to the LED's switching on below the set threshold.
  + Functional verification of the sensor: in order to ascertain the realistic functioning of the thermometer, a calibration by comparison was chosen. A digital electric household thermometer was used as a reference instrument. Both sensors were placed in contact with the wall of a glass of hot water and, taking advantage of the natural transfer of heat from the liquid to the external environment which causes a progressive decrease in temperature, a table was constructed with 5 measurements comparing, respectively, the reference value and the measured sensor value. (see *Figure 1* and *Table 1*)

*Table 1*

|  |  |
| --- | --- |
| **Reference value (°C)** | **Sensor value (°C)** |
| 42 | 44 |
| 39 | 41 |
| 35,6 | 37,1 |
| 35 | 36,4 |
| 33,6 | 35,9 |



Calibration for comparison

50

45

40

35

30

25

20

15

10

5

0

1

2

3

4

5

Reference value(°C)

Sensor value (°C)

*Figure 1: Calibration by comparison*

2

2

2.3

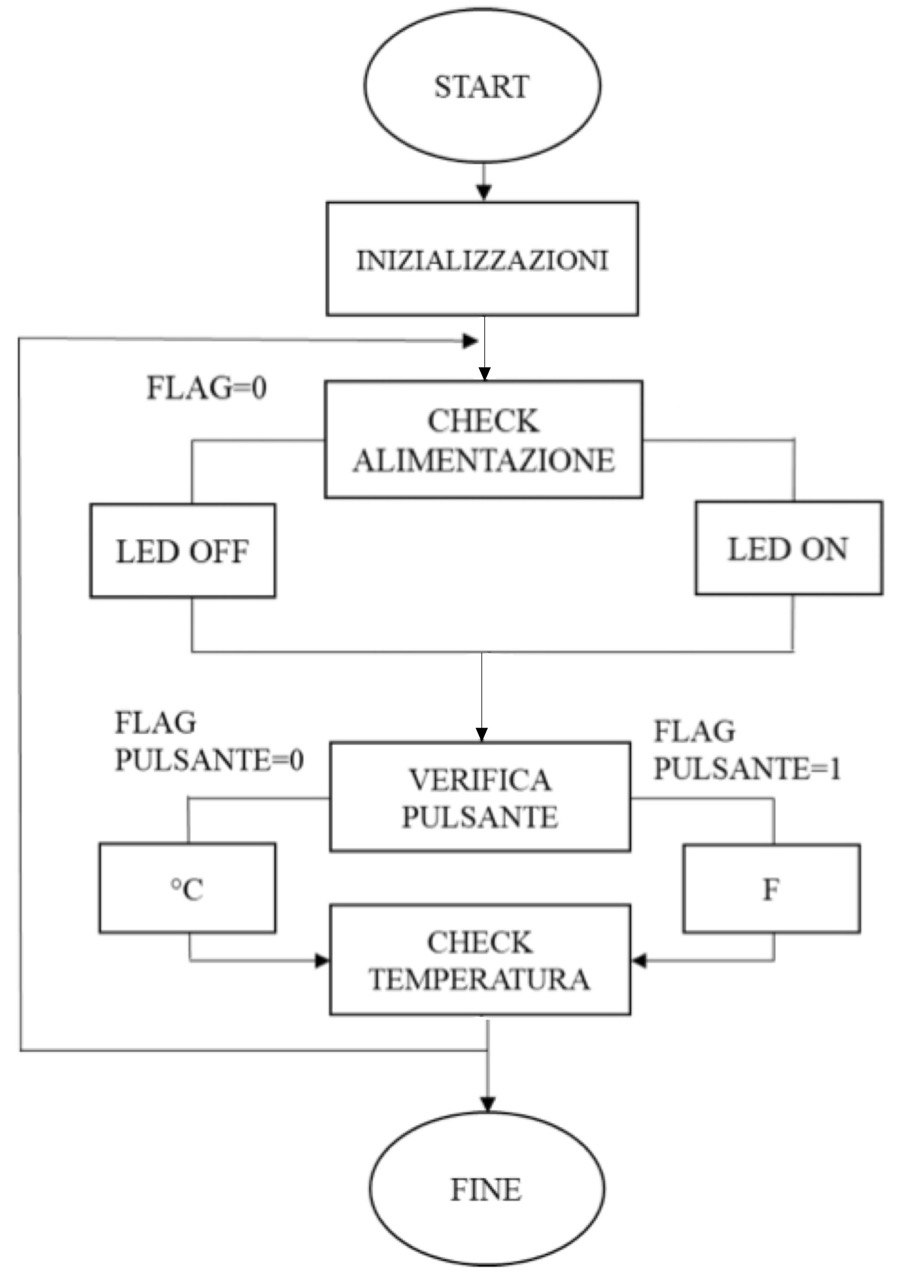
* + Verification of correct operation of the button: by physically changing the state of the button, the changeover from Celsius to Fahrenheit was verified correctly

# Software description

## Introduction

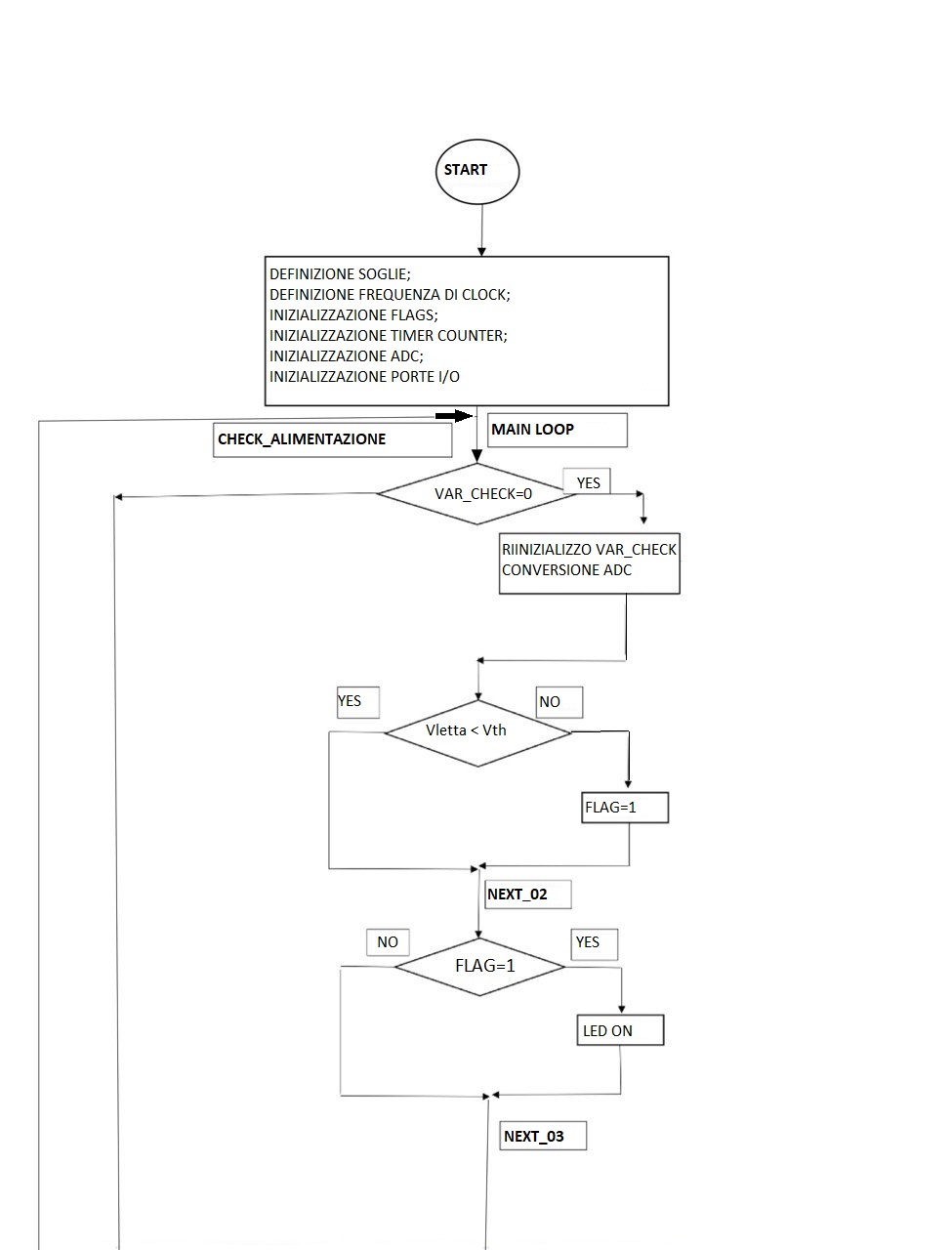
To programme the microcontroller and drive the entire circuit, the Atmel Studio 7.0 development environment was used. It allows intervention at the level of the individual registers and peripherals of the microcontroller. The execution software was realised in Assembler language and subsequently loaded into the Flash Program Memory of the ATmega328P using the ARDUINO UNO REV.3 board.

It is present in the development environment:

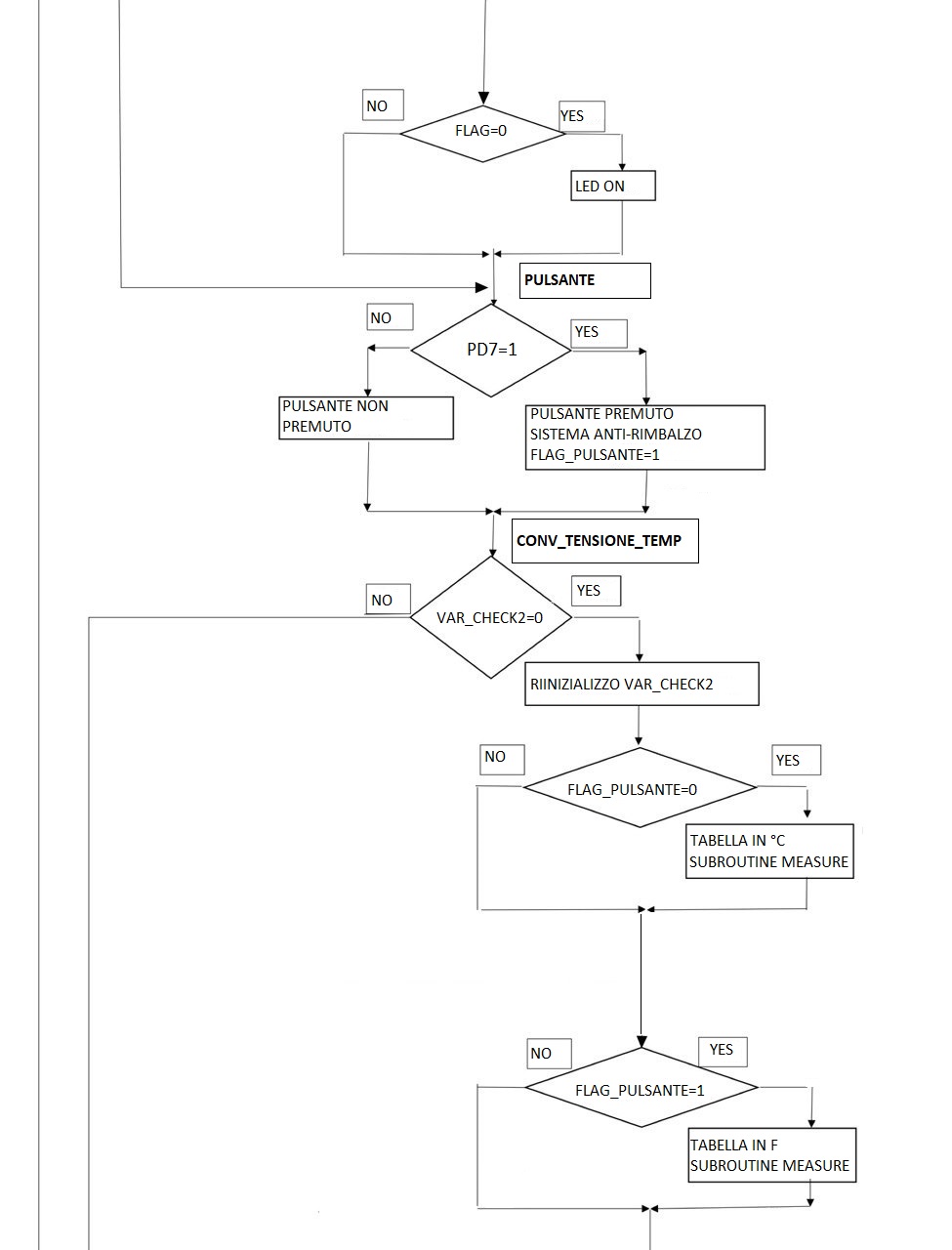
* + - an editor, which allows you to write code
    - an assembler, which makes it possible to switch between Assembler and machine language programmes
    - a simulator, which makes it possible to simulate what is happening in the microC and verify its actual operation.
  1. **Block diagram**

## Flow-chart







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**Flowchart routine measure**

MEASURE

ADSC=0

YES

NO

**Check\_conv**

VERIFICATION OF END OF ADC CONVERSION

START OF ADC

CONVERSION

START OF ADC

CONVERSION

END OF CONVERSION

I READ THE OUTPUT VALUE IN 4-BIT STEPS AND JUSTIFY TO THE LEFT

**display**

I SHOW THE RESULT ON THE DISPLAY

**Interrupt Response Subroutines**

mp  STACK

SREG STACK

INITIALISE TCNT0

DEC VAR\_CHECK DEC VAR\_CHECK2

STACK  SREG

reti

STACK  mp

# Specific verification and conclusions

The temperature meter, following the various tests to which it has been subjected, is found to be functional and adheres to all design specifications, with the exception of the complete conversion to degrees Farenahit. In fact, having only three displays, it was decided during the design phase to meet the required specification of 0.1 F resolution and therefore not to show the figure corresponding to hundreds of degrees Farenhait, considering it to be below 99.9 F onwards. To remedy this, an extra 7-segment display could be used.

![Immagine che contiene testo

Descrizione generata automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4TsGRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIyOjAxOjI1IDA3OjI2OjE0AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMwMAAAkpIAAgAAAAMwMAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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S39BUJ+ImpOXRLe3QrxyjH+tdscvh1ZzvFy6Iibx9qq7QZoo2c4GyIdfxzU1v4n1ieT5718d9oA/kKueGowg2lsQq05SVy1Jq1+8Z3Xkx/4Gai+3XDD5pnb6sTXIrHQyLzm89iWPKjv9aeZj1zVCGK+ATkDnvUF0/wC7G1ujKT+BFUibEvn4460Qy/vGPcik9h9RXck81W3cEe9Tcpo//9kA/+Ex5Gh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8APD94cGFja2V0IGJlZ2luPSfvu78nIGlkPSdXNU0wTXBDZWhpSHpyZVN6TlRjemtjOWQnPz4NCjx4OnhtcG1ldGEgeG1sbnM6eD0iYWRvYmU6bnM6bWV0YS8iPjxyZGY6UkRGIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczp4bXA9Imh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8iPjx4bXA6Q3JlYXRvclRvb2w+V2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NDwveG1wOkNyZWF0b3JUb29sPjx4bXA6Q3JlYXRlRGF0ZT4yMDIyLTAxLTI1VDA3OjI1OjI4PC94bXA6Q3JlYXRlRGF0ZT48L3JkZjpEZXNjcmlwdGlvbj48L3JkZjpSREY+PC94OnhtcG1ldGE+DQogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg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Immagine che contiene testo

Descrizione generata automaticamente

# Appendix: Implemented Assembly Code

; contact\_temperature\_meter.asm

;

; Definition of registers used

.DEF mp = R16 ; working register

. DEFmp1 = R17 ; secondary work register (generic)

.DEF var\_check = R18 ; var\_check is the variable decremented by the interrupt response subroutine for checking the supply voltage

. DEFvar\_check2 = R19 ; var\_check2 is the variable decremented by the interrupt response subroutine for temperature control

.DEFvar\_check3 = R25 ; var\_check3 is the variable that counts the anti-rebound of the button

. DEFflags = R20 ; flag ultilised for table change

.DEF flag\_button = R24 ; flag used to keep track of when the button was pressed

. DEFdly1 = R21 ; varibles used to implement the delay for the voltage change from 5V to 1.1 V between channel ADC0 and channel ADC1

. DEFdly2 = R22

. DEFdly3 = R23

.EQU TSH\_BAT = 210 ; threshold value set for supply voltage control

. EQUT\_CHECK = 100 ; constant defining the check range of the supply voltage

. EQUT\_CHECK2 = 50 ; constant defining the voltage sampling interval in multiples of 10ms

. EQUTABLEN = 1024 ; table length expressed in groups of 4 bytes (not used in this version)

;

;

.CSEG

.ORG 0x1FFF ; defines the beginning of the table to be written in flash

;

;LUT IN GRADES

tableC:

. db1, 0,0

. db2, 0,0

. db3, 0,0

. db4, 0,0

. db5, 0,0

. db6, 0,0

. db7, 0,0

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.db1012 ,0,0

.db1013 , 0,0

.db1014 , 0,0

.db1015 , 0,0

.db1016 , 0,0

.db1017 , 0,0

.db1018 , 0,0

.db1019 , 0,0

.db1020 , 0,0

.db1021 , 0,0

.db1022 , 0,0

.db1023 , 0,0

.db1024 , 0,0

;

.CSEG

.ORG 0x0000 ; defines the start of the code at address 0x0000

;

; INTERRUPT VECTORS FOLLOW

;

jmp RESET vector 1: Reset Handler

jmp EXT\_INT0 vector 2: IRQ0 Handler

jmp EXT\_INT1 vector 3: IRQ1 Handler

jmp PCINTR0 vector 4: PCINT0 Handler

jmp PCINTR1 vector 5: PCINT1 Handler

jmp PCINTR2 vector 6: PCINT2 Handler

jmp WDT vector 7: Watchdog timer handler

jmp TIM2\_COMPA ; vector 8: Timer2 Compare A handler

jmp TIM2\_COMPB ; vector 9: Timer2 compare B handler

jmp TIM2\_OVF ; vector 10: Timer2 Overflow Handler

jmp TIM1\_CAPT ; vector 11: Timer1 Capture Handler

jmp TIM1\_COMPA ; vector 12: Timer1 CompareA Handler

jmp TIM1\_COMPB ; vector 13: Timer1 CompareB Handler

jmp TIM1\_OVF ; vector 14: Timer1 Overflow Handler

jmp TIM0\_COMPA ; vector 15: Timer 0 CompareA handler

jmp TIM0\_COMPB ; vector 16: Timer 0 CompareB handler

jmp TIM0\_OVF ; vector 17: Timer0 Overflow Handler

jmp SPI\_STC ; vector 18: SPI Transfer Complete Handler

jmp USART\_RXC ; vector 19: USART RX Complete Handler

jmp USART\_UDRE ; vector 20: USART UDR Empty Handler

jmp USART\_TXC ; vector 21: USART TX Complete Handler

jmp ADC\_conv ; vector 22: ADC Conversion Complete Handler

jmp EE\_RDY ; vector 23: EEPROM Ready Handler

jmp ANA\_COMP ; vector 24: Analog Comparator Handler

jmp TWSI vector 25: Two-wire Serial Interface Handler

jmp SPM\_RDY ; vector 26: Store Program Memory Ready Handler

;

; END OF INTERRUPT VECTORS

;

RESET:

;

; Stack pointer initialisation to the last RAM cell

;

ldi mp,HIGH(RAMEND)

out SPH,mp

ldi mp,LOW(RAMEND)

out SPL,mp

;

; Initialisation of port B for power control, setting pin 5 as output

;

at mp,DDRB

ldi mp, 0b0010\_0000

outDDRB , mp

;

ldi mp, 0b1101\_1111

out PORTB,mp

; Output initialisation of the first 7 bits of portD. PD0 - PD3 = ABCD; PD4 = LE hundreds; PD5 = LE ;tens; PD6 = LE units

Input initialisation of pin 7 of port D connected to the button.

ldimp ,0b0111\_1111

out DDRD,mp

;

ldi mp, 0b0111\_0000

outPORTD , mp

;

; divides the internal clock frequency (16 MHz) by eight

;

ldi mp, 0b1000\_0000

stsCLKPR , mp ; enables prescaler programming

ldi mp, 0b0000\_0100

stsCLKPR , mp ; programs the division by 16 of the internal clock

;

; select prescaler step 1024 (if 1 MHz then 1024 us)

;

ldi mp,0b0000\_0101

out TCCR0B,mp

;

select time between interrupts of approximately 10ms (10.24 ms)

;

ldi mp, 246

outTCNT0,mp

;

; enables the interrupt in the event of a TCNT0 overflow

;

ldi mp,0b0000\_0001

sts TIMSK0,mp

;

; initialises variables

;

ldi var\_check, T\_CHECK ; variable that sets the voltage reading interval of the ;supply voltage

ldivar\_check2 , T\_CHECK2 ; variable setting the interval for reading the table

ldivar\_check3 , 0b0000\_0000 ; control variable for anti-rebound

;

; initialises the variable flag\_button which checks whether the button has been pressed

;

ldi flag\_button, 0b0000\_0000

;

; program the ADC to enable it without enabling the interrupt and select a prescaling factor of 4.

;

ldi mp,0b1000\_0010

sts ADCSRA,mp

;

; enables SREG-level interrupts

;

you are

;

;

;

main\_loop:

;

; check whether a time equal to the voltage sampling interval has elapsed

;

cpivar\_check ,0

;

; conditional jump to button if var\_check is different from 0

;

brne button

;

; initialise var\_check and power control

;

ldi var\_check,T\_CHECK

;

; conversion begins

; I select the channel and voltage from the ADMUX

;

ldi mp,0b0110\_0000 ; bit ADLAR = 1 for 8 bits, voltage at 5V, input A0

sts ADMUX,mp

;

callDelay\_1sec ; 5 ms delay to stabilise the voltage after the switch

;

; now start the conversion by setting bit 6 of ADCSRA (ADSC) to 1 without changing anything else in ADCSRA

;

lds mp,ADCSRA

ldi mp1,0b0100\_0000

or mp,mp1

sts ADCSRA,mp

;

;

; wait until the conversion is ready by testing ADSC in ADCSRA: when the conversion is complete ADSC returns to 0

;

check\_conv:

lds mp,ADCSRA

ldi mp1,0b0100\_0000

and mp,mp1

brne check\_conv

;

; read the converted value on 8 bits

;

lds mp,ADCH

;

; if the read value is greater than or equal to the threshold, it jumps to next02

;

cpi mp,TSH\_BAT

brsh next01

;

; sets flags bit 0 to 1 without modifying the others

;

ldi mp1,0b1111\_1110

and flags,mp1

;

next01:

cpi mp,TSH\_BAT

brlo next02

;

; sets flags bit 0 to 0 without modifying the others

;

ldi mp1,0b0000\_0001

or flags,mp1

next02:

;

; check the flag to possibly switch on the LED connected to PB5

;

ldi mp1,0b0000\_0001 ; prepares the mask for bit 0 of flags 0b0001\_0000

and mp1,flags ; isolates bit 0 of flags in mp1

cpi mp1,0b0000\_0000

brne next03

;

; These instructions write the value 1 bit 5 portB; the LED lights up

;

ldi mp,0b0010\_0000

out PORTB,mp

;

next03:

;

; check the flag to possibly switch off the led

;

ldi mp1,0b0000\_0001 ; prepares the mask for bit 0 of flags 0b0001\_0000

and mp1,flags ; isolates bit 0 of flags in mp1

cpi mp1,0b0000\_0001

pulsating brne

;

; These instructions write the value 0 into the first line of port C; the LED turns off

;

ldi mp,0b0000\_0000

out PORTB,mp

;

button:

;

; Firstly button status control: I insert a delay that allows me not to change state for 30 ms after ; that the button has been pressed,

Avoiding rebound artefacts due to its mechanical nature

;

sbicPIND , PD7 ; check pin 7 status, if PD7 is at 0 I switch to rjmp voltage

rjmp skip

rjmp conv\_voltage\_temp

;

jump:

ldivar\_check3 ,30 ; initialise var\_check3 to 30

;

delay\_30: ; 30 ms delay to avoid debounce

cpivar\_check3 ,0

brnedelay\_30

ldi mp, 0b0000\_0001

eor flag\_button,mp

;

; check whether a time equal to the voltage sampling interval has elapsed

;

conv\_tension\_temp:

;

cpivar\_check2 ,0

;

; conditional jump to end\_loop if var\_check2 is different from 0

;

brne end\_loop

;

; if var\_check2 is equal to 0

;

ldivar\_check2,T\_CHECK2 ; initialisation var\_check2

;

; check flag\_button: if it is equal to 1 I read table\_F otherwise I read table\_C

;

andiflag\_button ,1

brne table\_F

;

; prepares the passing of the initial table address to the subroutine as a local variable in the stack

;

table\_C:

ldi ZH,high(2\*tableC) ; initialises ZH with the high part of the table address

ldi ZL,low(2\*tableC) ; initialises ZL with the lower part of the table address

;

pushZH ; puts ZH on the stack to pass it to the subroutine that will use it as a parameter

;

pushZL ; puts ZL on the stack to pass it to the subroutine that will use it as a parameter

;

rjmp proof

;

;

table\_F:

ldi ZH,high(2\*tableF) ; initialises ZH with the high part of the table address

ldi ZL,low(2\*tableF) ; initialises ZL with the low part of the table address

;

pushZH ; puts ZH on the stack to pass it to the subroutine that will use it as a parameter

;

pushZL ; puts ZL on the stack to pass it to the subroutine that will use it as a parameter

;

; call of the measure subroutine which samples the voltage and displays the result (note, the call stores the two bytes of the return address on the stack)

;

proof:

call measure

ret ; returns to the calling programme

;

;

brne end\_loop

;

end\_loop:

;

nop ; nop = no operation

;

rjmp main\_loop

;

; call up the measure subroutine which samples the voltage and displays the result

;

measure:

;

pop mp ; temporarily extracts the last byte of the return address placed on the stack by the call

pop mp1 ; temporarily pulls the first byte of the return address placed on the stack by the call

pop ZL ; retrieves the low byte of the table address that was passed by the calling programme on the stack

pop ZH ; retrieves the high byte of the table address that was passed by the calling programme on the stack

push mp1 ; restores the first byte of the return address placed on the stack by the call

push mp ; restores the last byte of the return address placed on the stack by the call

;

;

;

ldi mp,0b1100\_0001 ; set working voltage to 1.1 V, ADLAR=0, channel 1

sts ADMUX,mp

call Delay\_1sec

;

;

lds mp,ADCSRA

ldi mp1,0b010000 ; start conversion

or mp,mp1

sts ADCSRA,mp

;

; wait until the conversion is ready by testing ADSC in ADCSRA: when the conversion is complete ADSC returns to 0

;

check\_conv2:

lds mp,ADCSRA

ldi mp1,0b010000

and mp,mp1

brne check\_conv2

;

; reads the converted value on 10 bits ADCL and ADCH by reading ADCL first

;

; multiplication by 4 on a 10-bit register

;

lds mp, ADCL

lds mp1, ADCH

;

lsl mp1

lsl mp1 ; I move the ADCL bits to the left, twice

;

lsl mp

brcc carry ; switches to carry if carry=0, no carry

ori mp1, 0b0000\_0010 ; if it is set (carry=1) I put the carry in the first bit of ADCH

;

carry:

lsl mp

brcc display ; switches to display if carry=0, no carry

ori mp1, 0b0000\_0001 ; if set (carry=1) I put the carry in bit 0 of ADCH

;

; I show the converted values on the display

;

display:

;

add ZL,mp ; Points to the table cell that corresponds to the value read by the ADC

adc ZH,mp1

;

; prepares display

;

lpm mp, Z+ ; reads first value of the table row containing the complete integer value over 8 bits and increments Z

;

lpm mp, Z+ ; reads the second value of the table row containing the hundreds digit and increments Z

ori mp,0b0111\_0000 ; leave one PD4 - PD7 and do not change PD0 - PD3

out PORTD, mp ; writes out the hundreds digit

andi mp, 0b0110\_1111 ; prepares PD4 at low level (LE hundreds) without changing the hundreds digit

out PORTD, mp ; enables LE hundreds

nop ; waiting instructions necessary to ensure strobe effectiveness

nop

nop

nop

nop

ori mp,0b0111\_0000 ; puts at one PD4 - PD7 (raises LE)

out PORTD, mp

;

;

lpm mp, Z+ ; reads the third value of the table row containing the tens digit and increments Z

;

ori mp,0b0111\_0000 ; leaves PD4 - PD7 at 1 and does not change PD0 - PD3

out PORTD, mp ; outputs the tens digit

andi mp, 0b0101\_1111 ; prepares PD5 at low level (LE tens) without changing the tens digit

out PORTD, mp ; enables LE tens

nop ; waiting instructions necessary to ensure strobe effectiveness

nop

nop

nop

nop

ori mp,0b0111\_0000 ; puts at one PD4 - PD7 (raises LE)

out PORTD, mp

;

lpm mp, Z+ ; reads the fourth value of the table row containing the units digit and increments Z

;

ori mp,0b0111\_0000 ; leaves PD4 - PD7 at 1 and does not change PD0 - PD3

out PORTD, mp ; writes out the units digit

andi mp, 0b0011\_1111 ; prepares PD6 at low level (LE units) without changing the units digit

out PORTD, mp ; enables LE units

nop ; waiting instructions necessary to ensure strobe effectiveness

nop

nop

nop

nop

ori mp,0b0111\_0000 ; puts at one PD4 - PD7 (raises LE)

out PORTD, mp

;

; display writing finished

ret ; returns to the calling programme

;

;

;

Delay\_1sec:

ldi dly1, 1

Delay1:

ldi dly2, 10

Delay2:

ldi dly3, 250

Delay3:

dec dly3

nop

brne Delay3

dec dly2

brne Delay2

dec dly1

brne Delay1

ret

; INTERRUPT HANDLERS FOLLOW

;

;

EXT\_INT0:

networks vector 2: IRQ0 Handler

;

EXT\_INT1:

networks vector 3: IRQ1 Handler

;

PCINTR0:

networks vector 4: PCINT0 Handler

;

PCINTR1:

networks vector 5: PCINT1 Handler

;

PCINTR2:

networks vector 6: PCINT2 Handler

;

WDT:

networks vector 7: Watchdog timer handler

;

TIM2\_COMPA:

networks vector 8: Timer2 compare A handler

;

TIM2\_COMPB:

networks vector 9: Timer2 compare B handler

;

TIM2\_OVF:

networks vector 10: Timer2 Overflow Handler

;

TIM1\_CAPT:

networks vector 11: Timer1 Capture Handler

;

TIM1\_COMPA:

networks vector 12: Timer1 CompareA Handler

;

TIM1\_COMPB:

networks vector 13: Timer1 CompareB Handler

;

TIM1\_OVF:

networks vector 14: Timer1 Overflow Handler

;

TIM0\_COMPA:

networks vector 15: Timer 0 CompareA handler

;

TIM0\_COMPB:

networks vector 16: Timer 0 CompareB handler

;

;

TIM0\_OVF:

;

; saves mp in the stack before using it

push mp

; saves SREG in the stack

at mp,SREG

push mp

; re-initialises the counter timer count variable (10.24 ms)

ldi mp,246

out TCNT0,mp

; decreases the counting variables of the ADC timing

dec var\_check

dec var\_check2

; restores SREG

pop mp

out SREG,mp

; restore mp

pop mp

;

networks vector 17: Timer0 Overflow Handler

;

;

;

SPI\_STC:

networks vector 18: SPI Transfer Complete Handler

;

USART\_RXC:

networks vector 19: USART RX Complete Handler

;

USART\_UDRE:

networks vector 20: USART UDR Empty Handler

;

USART\_TXC:

networks vector 21: USART TX Complete Handler

;

ADC\_conv:

networks vector 22: ADC Conversion Complete Handler

;

EE\_RDY:

networks vector 23: EEPROM Ready Handler

;

ANA\_COMP:

networks vector 24: Analog Comparator Handler

;

TWSI:

networks vector 25: Two-wire Serial Interface Handler

;

SPM\_RDY:

networks vector 26: Store Program Memory Ready Handler