

Kalmar Växjö

Lab Report

Lab 4
Arduino UNO, REV 3 – ATmega 328p



Author(s): David Mozart, Marcus Thornemo

Larsson

Supervisor: Cristian Babes

Semester: HT19 Course Code: 1DT301



Linneuniversitetet Kalmar Växjö

Table of Content

Task I	3
Description	3
Flowchart	3
Task II	4
Description	4
Task IV	5
Description	5
Flowchart	5
Task V	6
Description	6
Flowchart	6

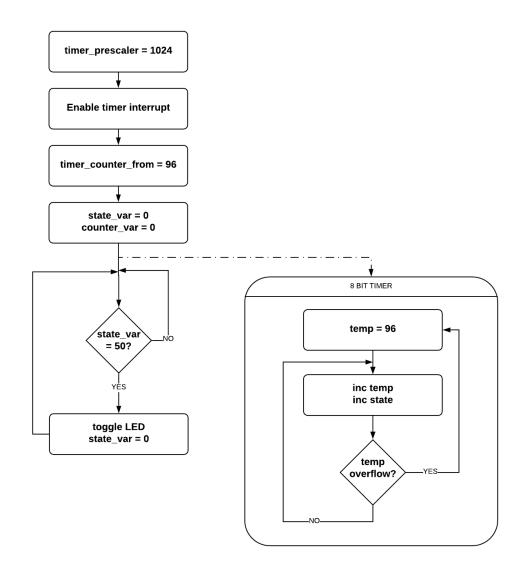


Kalmar Växjö

Task I

Description

This program illustrates a square wave generator with 1 second period where the led is on 50% of the time and off 50% of the time.



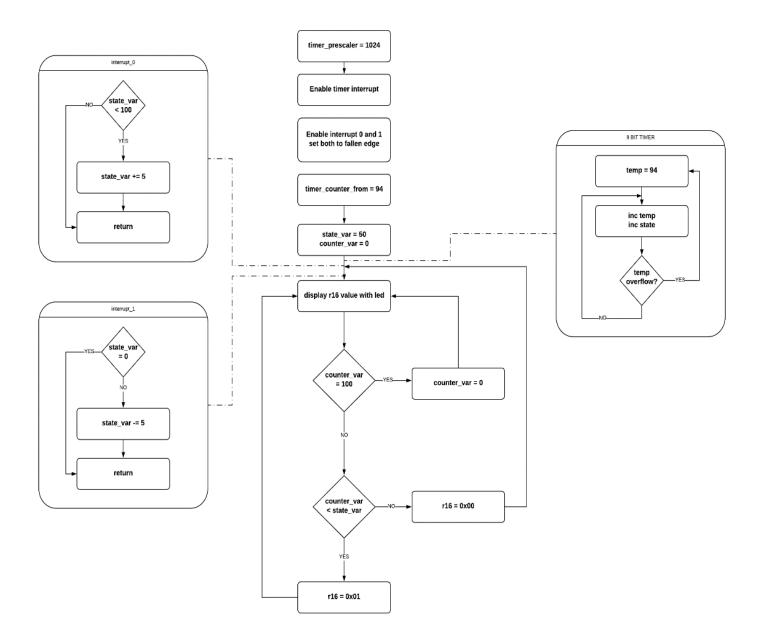


Kalmar Växjö

Task II

Description

This program allows the user to control the duty cycle by pushing two different buttons. One increase the duty cycle by 5% and the other one decrease by 5%.



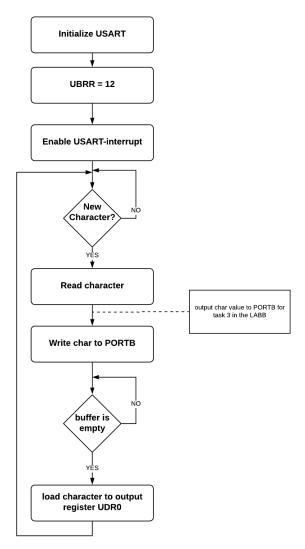


Kalmar Växjö

Task IV

Description

This program expect an input from a data source and outputs the input to the console.





Kalmar Växjö

Task V

Description

This program expects a input from a data source and outputs the input to the console, just like task 4 but instead using interrupt.

