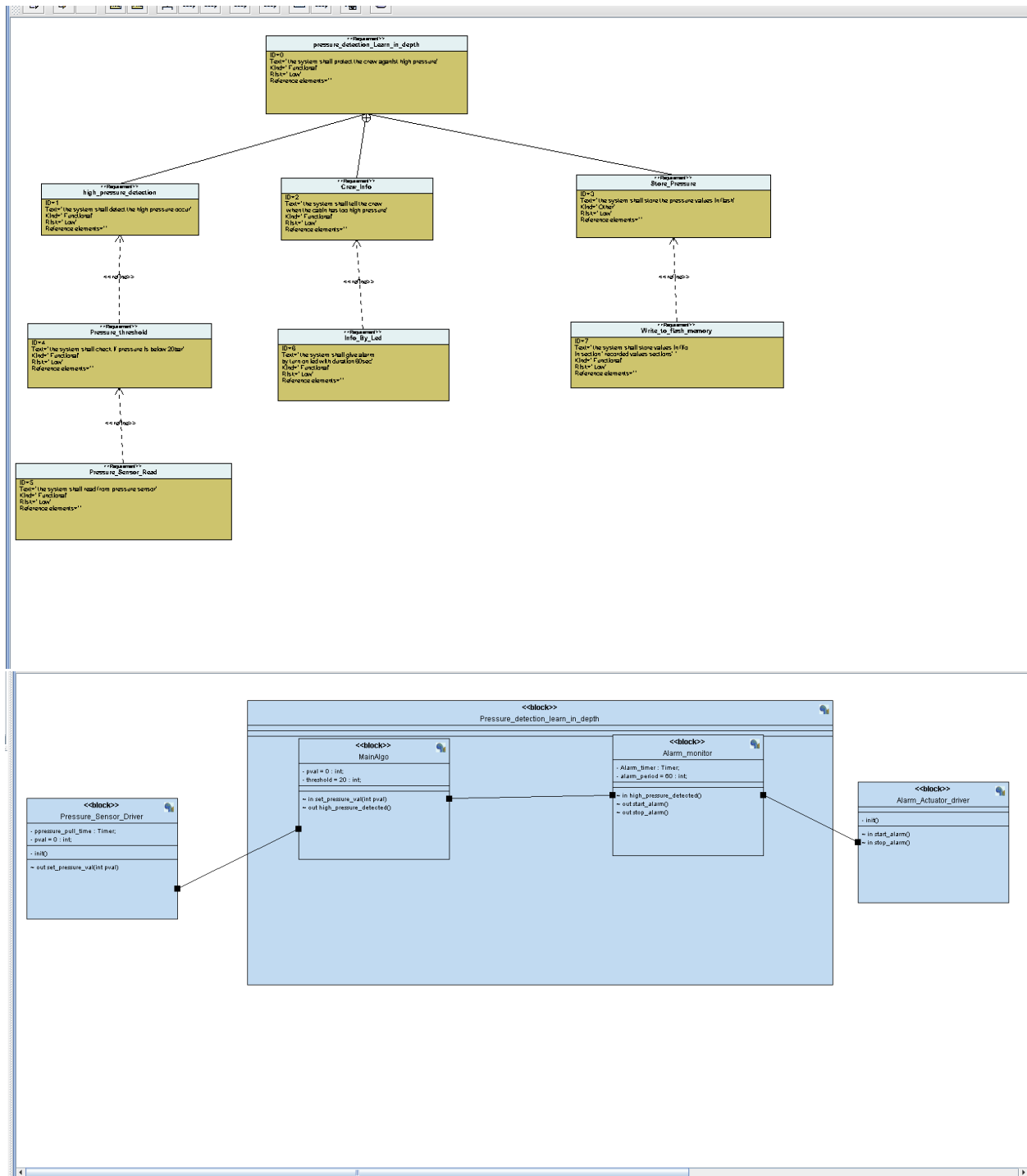
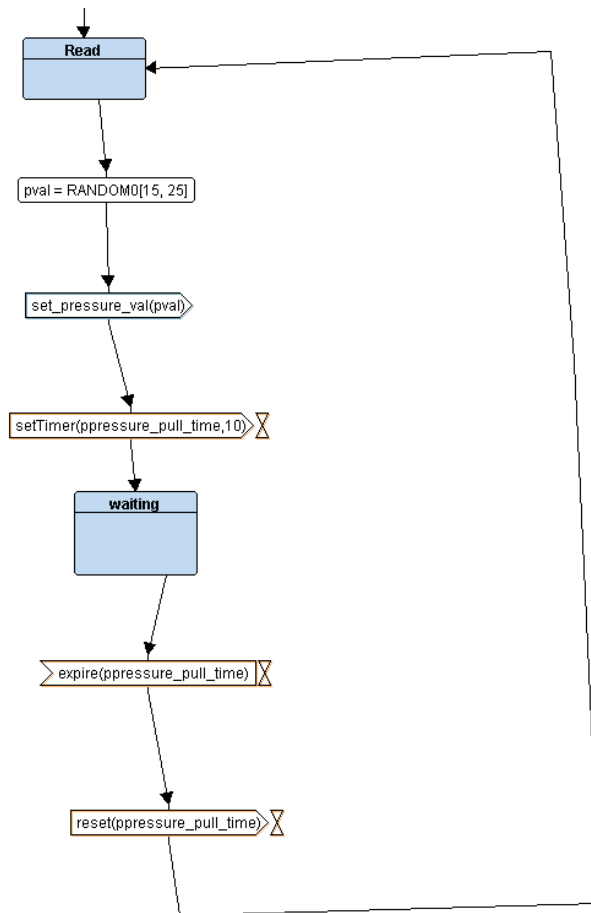


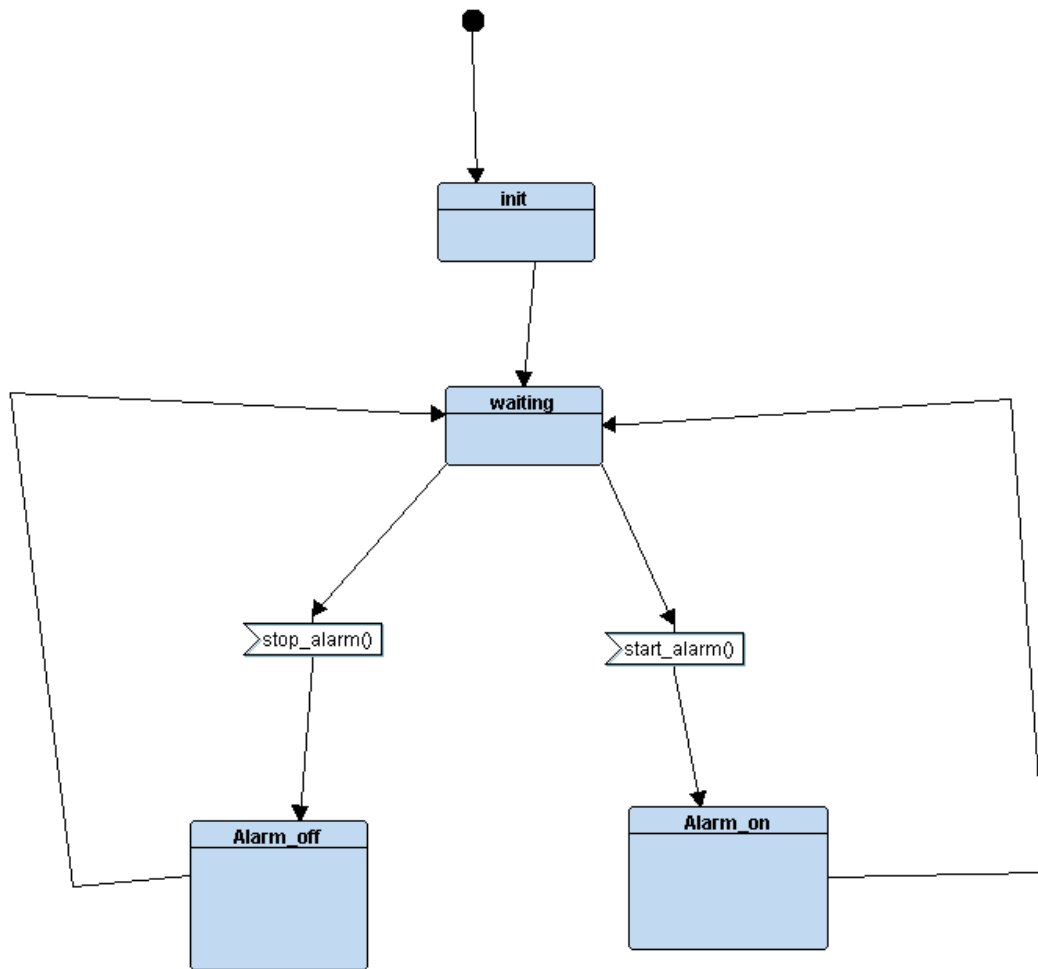
Report

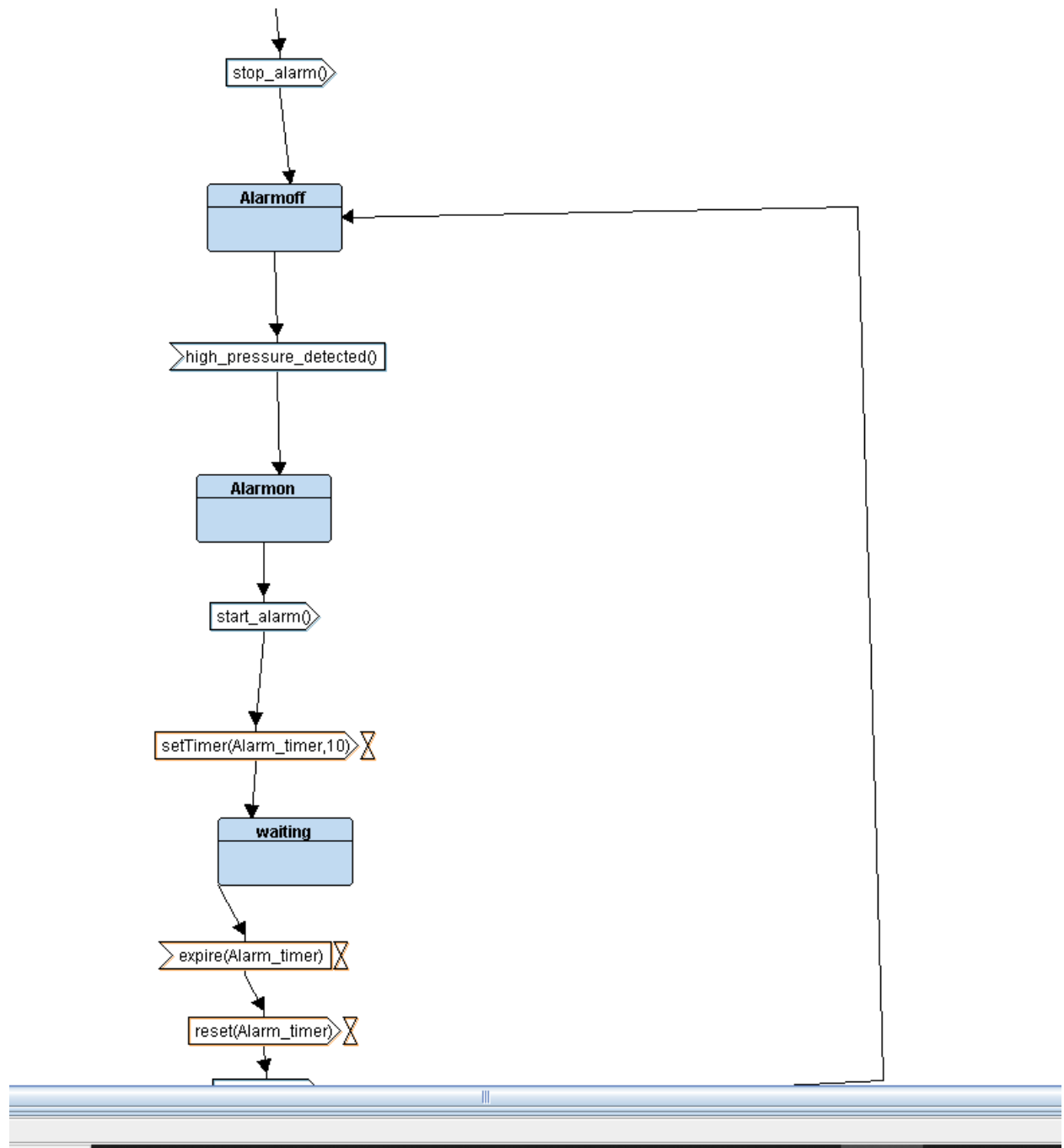
FIRST_TERM_PROJECT_1

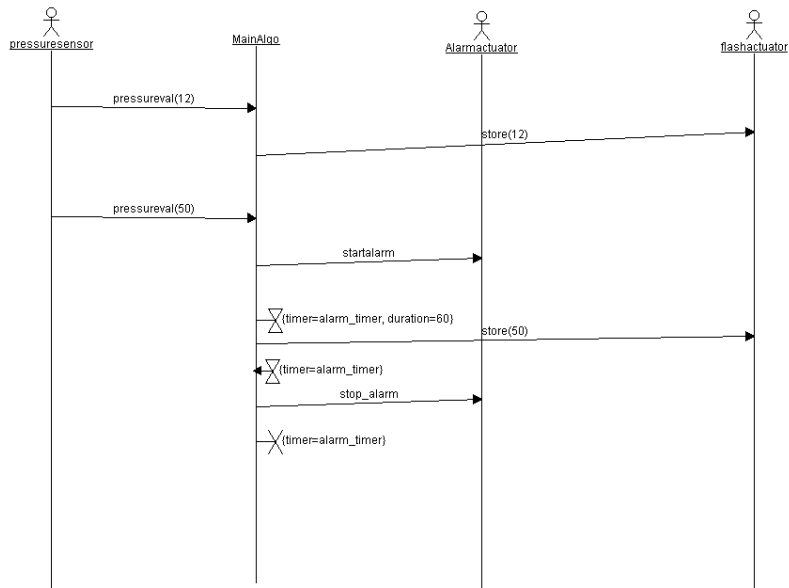
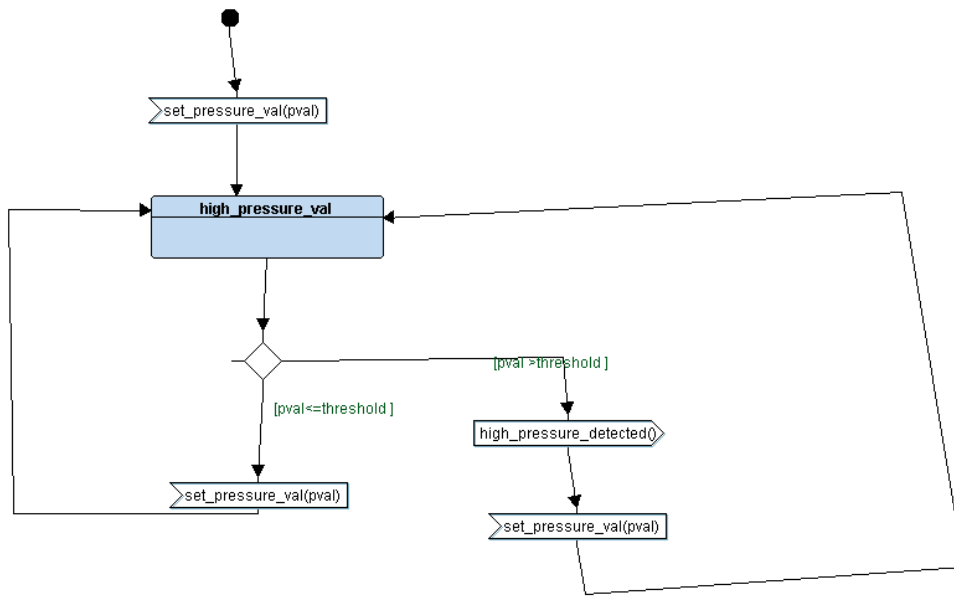
Mamoud Mohamed Ali Elkot

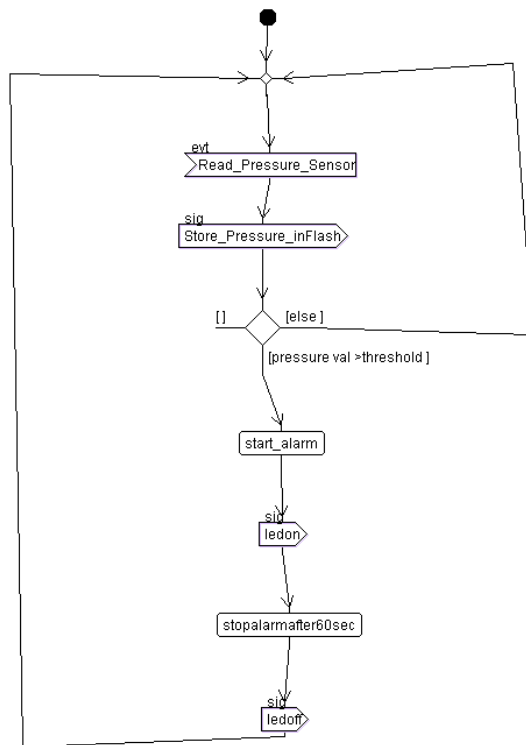
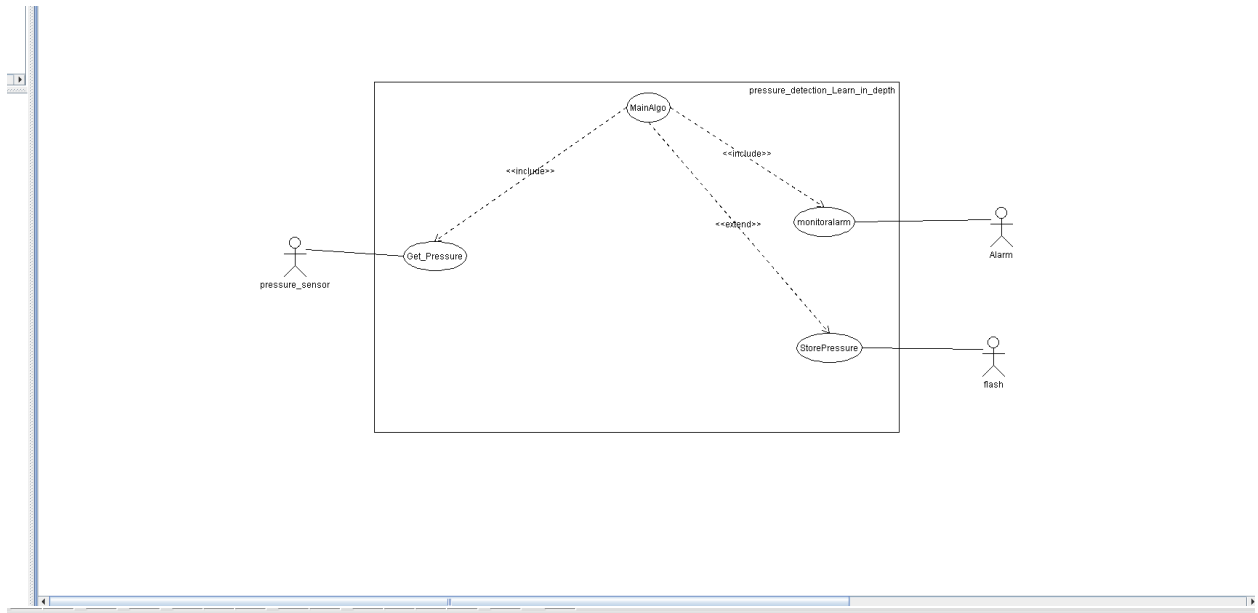


























Name	Date modified	Type	Size
 driver	10/22/2021 8:07 PM	File folder	
 Alarmactuatordriver.c	10/22/2021 6:44 PM	C File	1 KB
 Alarmactuatordriver.h	10/22/2021 5:52 PM	H File	1 KB
 AlarmMonitor.c	10/22/2021 6:44 PM	C File	1 KB
 AlarmMonitor.h	10/22/2021 5:51 PM	H File	1 KB
 linker_script.ld	10/2/2021 3:05 PM	LD File	1 KB
 main.c	10/22/2021 6:04 PM	C File	1 KB
 main_algo.c	10/22/2021 6:43 PM	C File	1 KB
 main_algo.h	10/22/2021 5:56 PM	H File	1 KB
 Makefile	10/22/2021 8:08 PM	File	1 KB
 pressure_sensir_driver.c	10/22/2021 7:21 PM	C File	1 KB
 pressure_sensor_driver.h	10/22/2021 5:55 PM	H File	1 KB
 Startup.c	10/2/2021 2:57 PM	C File	2 KB
 state.h	10/22/2021 5:47 PM	H File	1 KB

```
$ arm-none-eabi-nm.exe Learn-in-depth-first_term_project_1.elf
```

```
20000029 B _E_bss
20000004 D _E_data
080003dc T _E_text
20000004 B _S_bss
20000000 D _S_data
20001029 B _stack_top
20000004 B alarm_actuator_states
20000010 B alarm_monitor_states
08000348 W Bus_FAULT_handler
08000348 T Default_handler
08000144 T Delay
08000166 T getPressureVal
080001b8 T GPIO_INITIALIZATION
08000348 W H_fault_handler
08000128 T high_pressure_detected
20000008 B id_alarm_actuator
2000000c B id_alarm_monitor
2000001c B id_main_algo_states
20000028 B id_pressure_driver_states
080002dc T init
08000018 T inti
0800024c T main
20000014 B main_algo_states
08000348 W MM_Fault_handler
08000348 W NMI_Handler
20000020 B pressure
20000024 B Pressure_state
20000018 B pval
08000354 T Reset_handler
0800017c T Set_Alarm_actuator
080002b0 T set_pressure_val
08000208 T Setup_main
08000110 T st_alarm_monitor_alarm_off
080000ec T st_alarm_monitor_alarm_on
080000c4 T st_alarm_monitor_waiting
0800004c T st_alarm_off
08000024 T st_alarm_on
08000284 T st_high_pressure_decide
080002e8 T st_pressure_driver_read
08000320 T st_pressure_driver_waiting
08000074 T st_waiting
0800008c T start_alarm
080000a8 T stop_alarm
20000000 D threshold
08000000 T vectors
```

```
ALBORAQ@DESKTOP-LM0EBQ2 MINGW64 /e/Embedded System Diploma/Diploma Repo/Embedded-System-Diploma-/first_term_project_1 (main)
```

```
ALBORAQ@DESKTOP-LM0EBQ2 MINGW64 /e/Embedded System Diploma/Diploma Repo/Embedded-System-Diploma-/first_term_project_1 (main)
```

```
$ arm-none-eabi-nm.exe main.o
```

```
U alarm_actuator_states
U alarm_monitor_states
U GPIO_INITIALIZATION
00000044 T main
U main_algo_states
U Pressure_state
00000000 T Setup_main
U st_alarm_monitor_alarm_off
U st_high_pressure_decide
U st_pressure_driver_read
U st_waiting
```



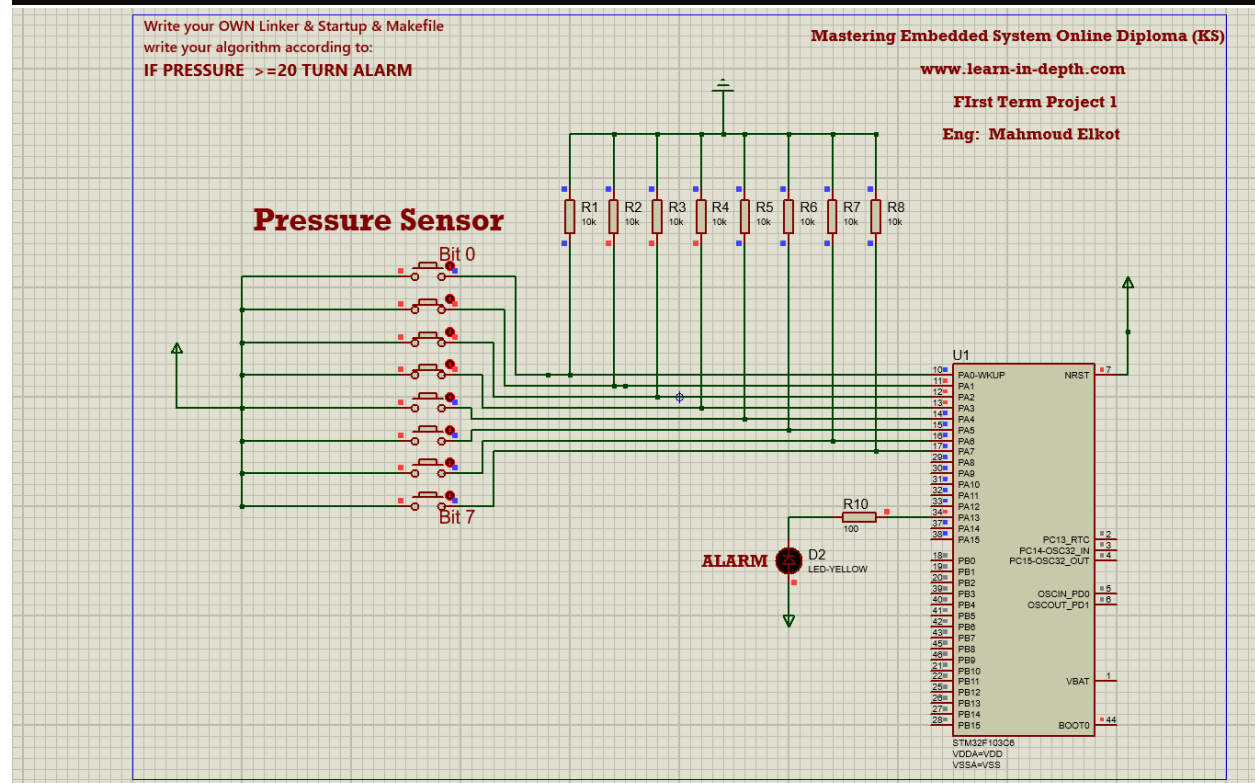
```
ALBORAQ@DESKTOP-LM0EBQ2 MINGW64 /e/Embedded System Diploma/Diploma Repo/Embedded-System-Diploma-/first_term_project_1 (main)
$ arm-none-eabi-objdump.exe -h Learn-in-depth-first_term_project_1.elf

Learn-in-depth-first_term_project_1.elf:      file format elf32-littlearm
```

```
Sections:
Idx Name          Size      VMA           LMA     File off  Algn
 0 .text          000003dc  00000000  00000000  00010000  2**2
CONTENTS, ALLOC, LOAD, READONLY, CODE
 1 .data          00000004  20000000  000003dc  00020000  2**2
CONTENTS, ALLOC, LOAD, DATA
 2 .bss           00001025  20000004  000003e0  00020004  2**2
ALLOC
 3 .debug_info     00000883  00000000  00000000  00020004  2**0
CONTENTS, READONLY, DEBUGGING, OCTETS
 4 .debug_abbrev   0000053e  00000000  00000000  00020887  2**0
CONTENTS, READONLY, DEBUGGING, OCTETS
 5 .debug_loc      00000580  00000000  00000000  00020dc5  2**0
CONTENTS, READONLY, DEBUGGING, OCTETS
 6 .debug_aranges  000000e0  00000000  00000000  00021345  2**0
CONTENTS, READONLY, DEBUGGING, OCTETS
 7 .debug_line     00000693  00000000  00000000  00021425  2**0
CONTENTS, READONLY, DEBUGGING, OCTETS
 8 .debug_str      000003ed  00000000  00000000  00021ab8  2**0
CONTENTS, READONLY, DEBUGGING, OCTETS
 9 .comment        00000049  00000000  00000000  00021ea5  2**0
CONTENTS, READONLY
10 .ARM.attributes 0000002d  00000000  00000000  00021eee  2**0
CONTENTS, READONLY
11 .debug_frame    00000344  00000000  00000000  00021f1c  2**2
CONTENTS, READONLY, DEBUGGING, OCTETS
```

```
ALBORAQ@DESKTOP-LM0EBQ2 MINGW64 /e/Embedded System Diploma/Diploma Repo/Embedded-System-Diploma-/first_term_project_1 (main)
```

```
ALBORAQ@DESKTOP-LM0EBQ2 MINGW64 /e/Embedded System Diploma/Diploma Repo/Embedded-System-Diploma-/first_term_project_1 (main)
$ arm-none-eabi-size.exe Learn-in-depth-first_term_project_1.elf
   text  data  bss   dec   hex filename
   988    4    4133   5125   1405 Learn-in-depth-first_term_project_1.elf
```



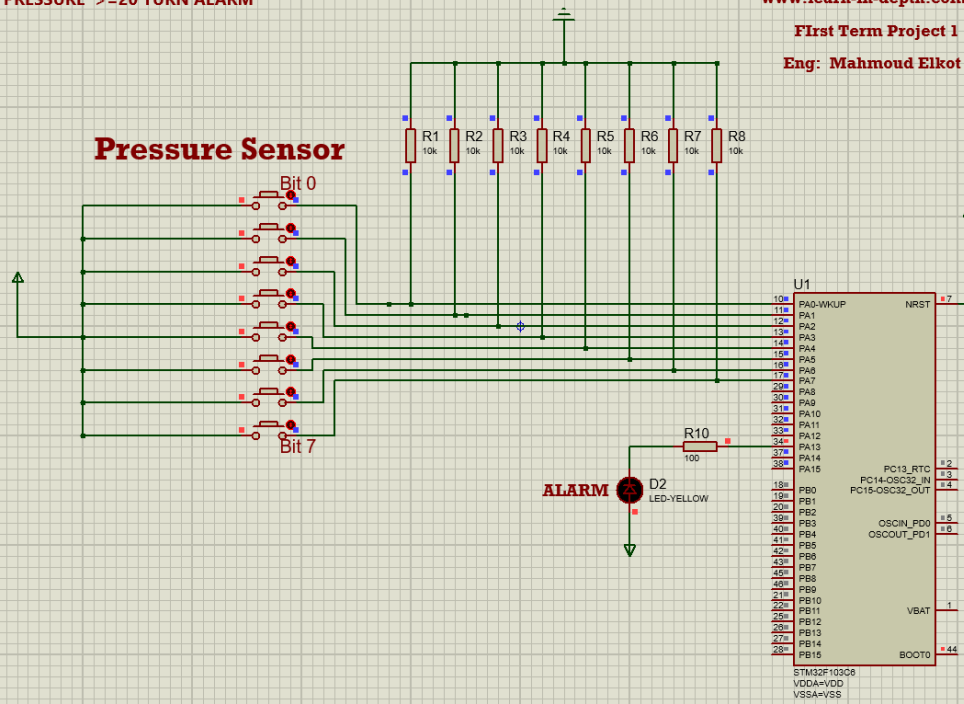
Write your OWN Linker & Startup & Makefile
write your algorithm according to:
IF PRESSURE >=20 TURN ALARM

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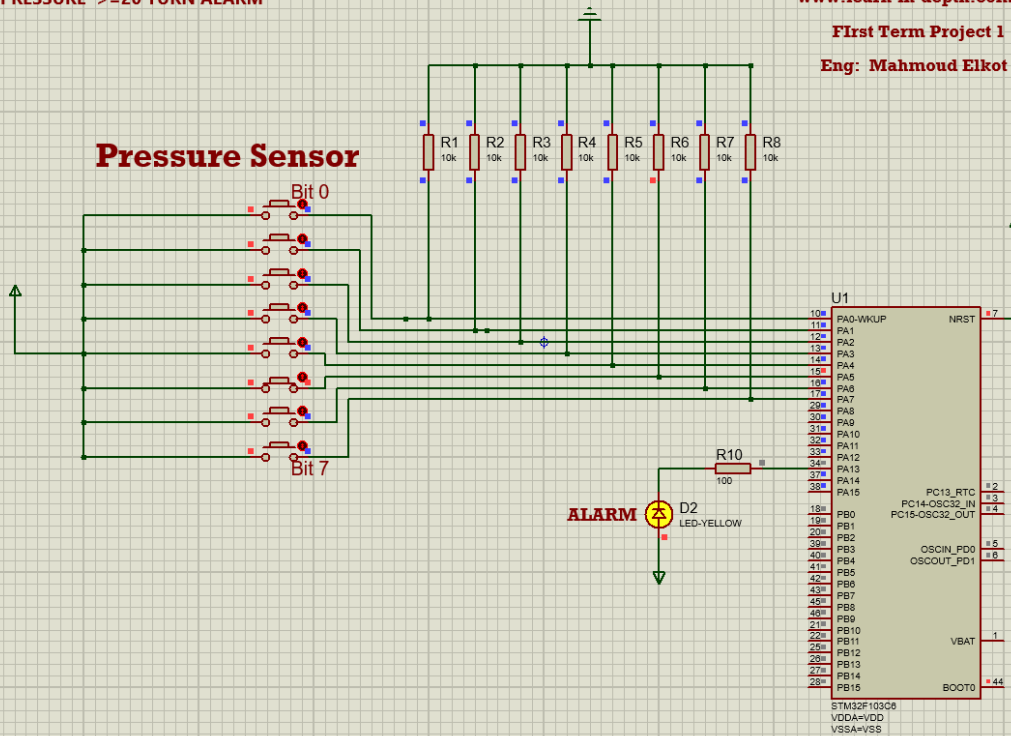
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