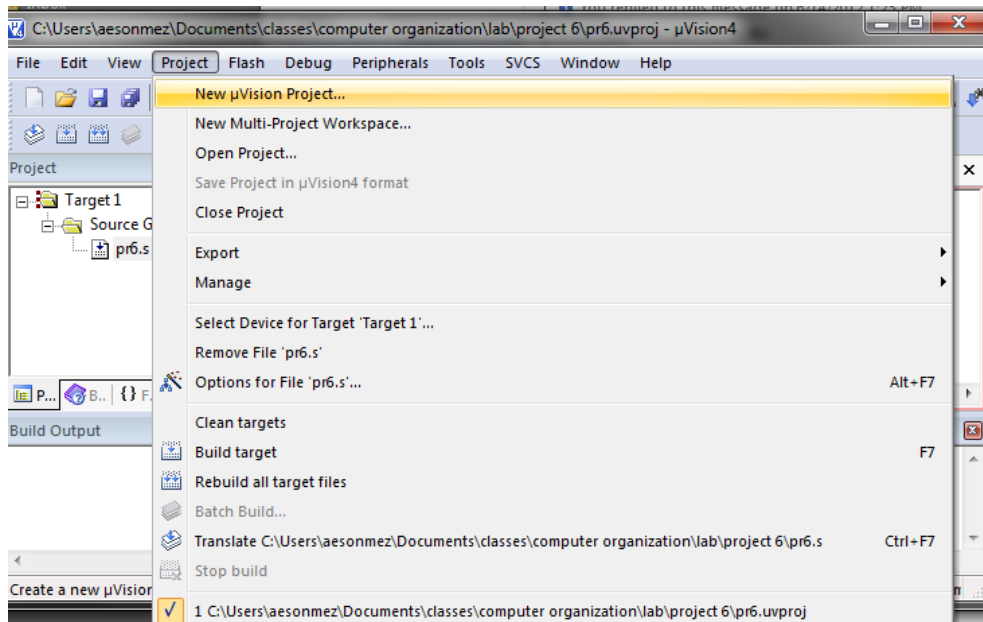
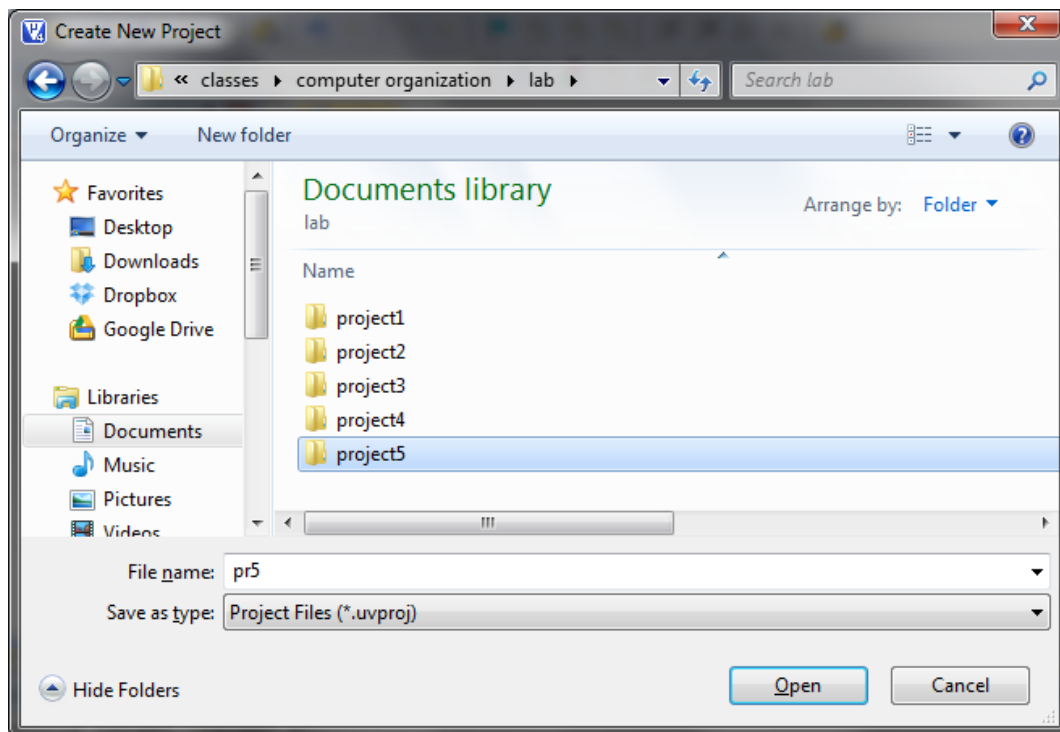


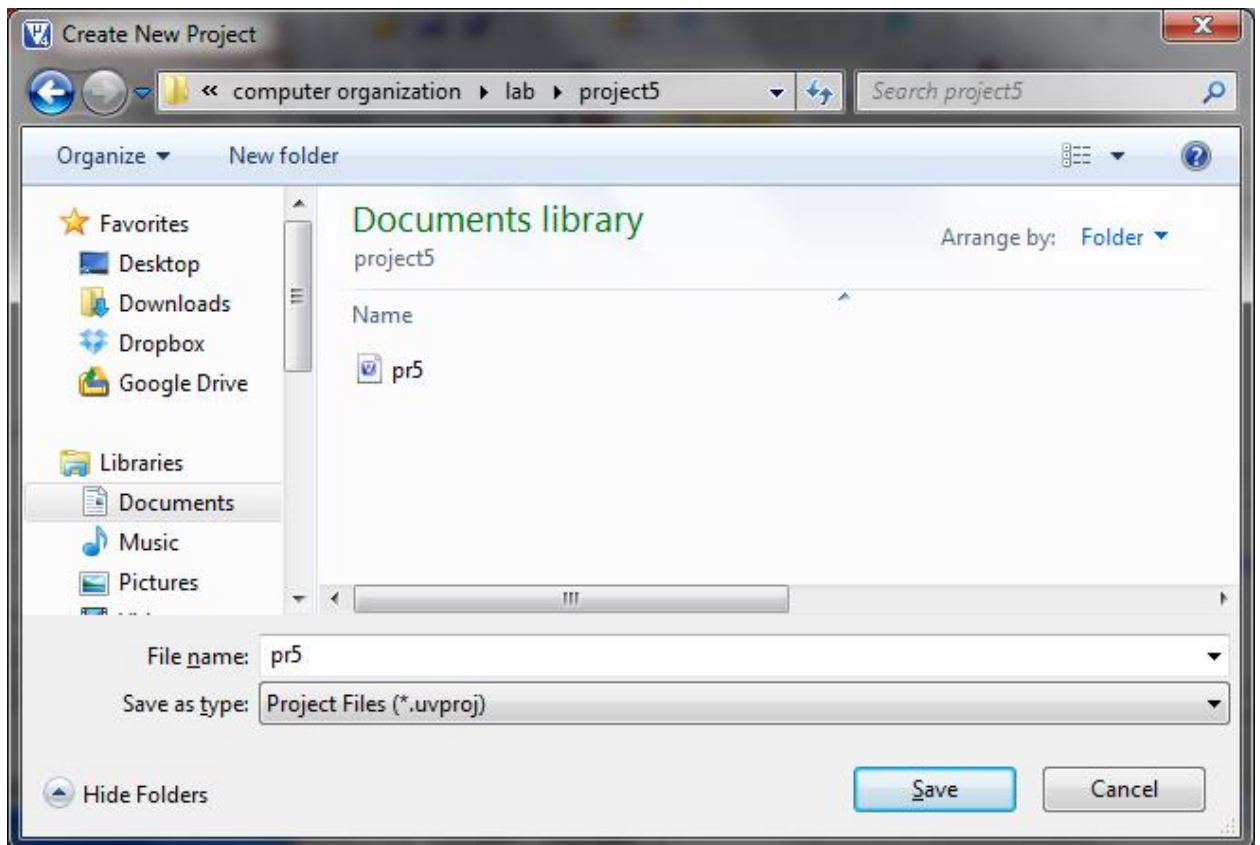
CREATE A PROJECT

- 1) First you need to create a new project

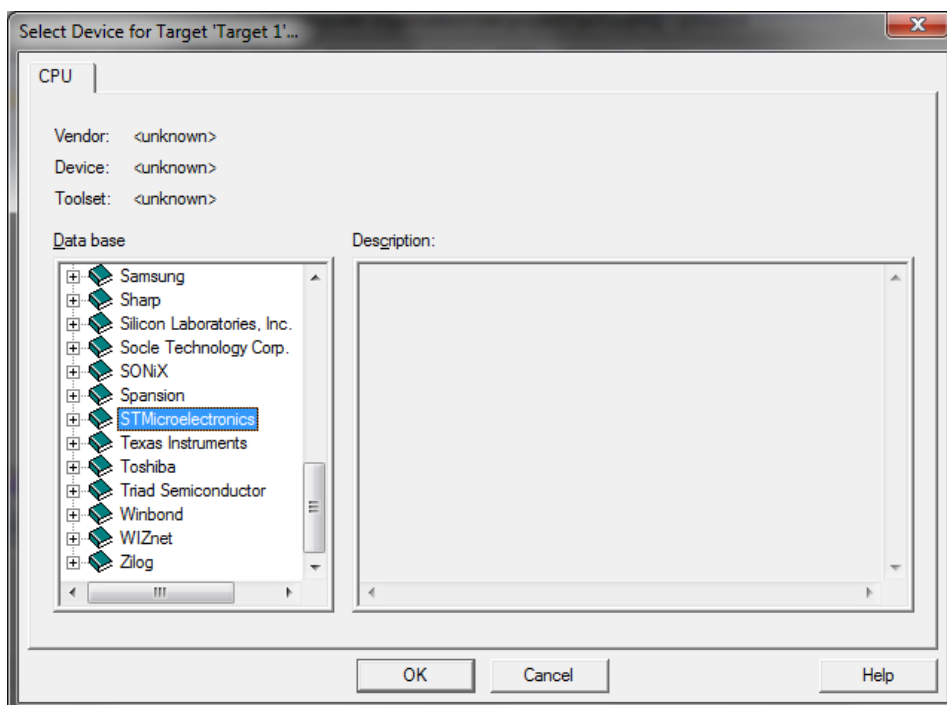


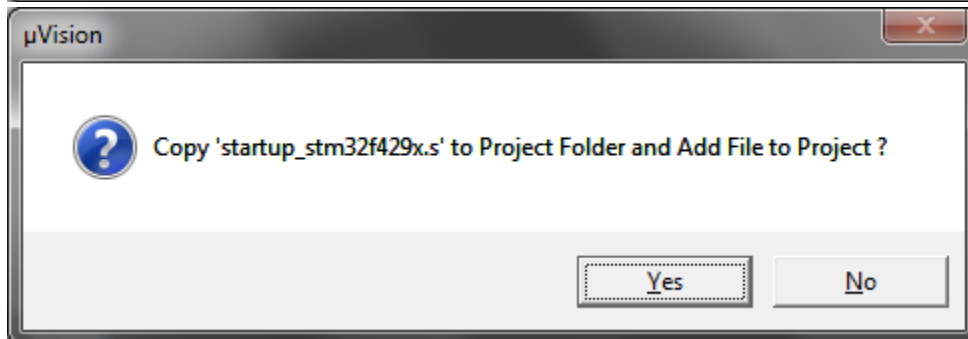
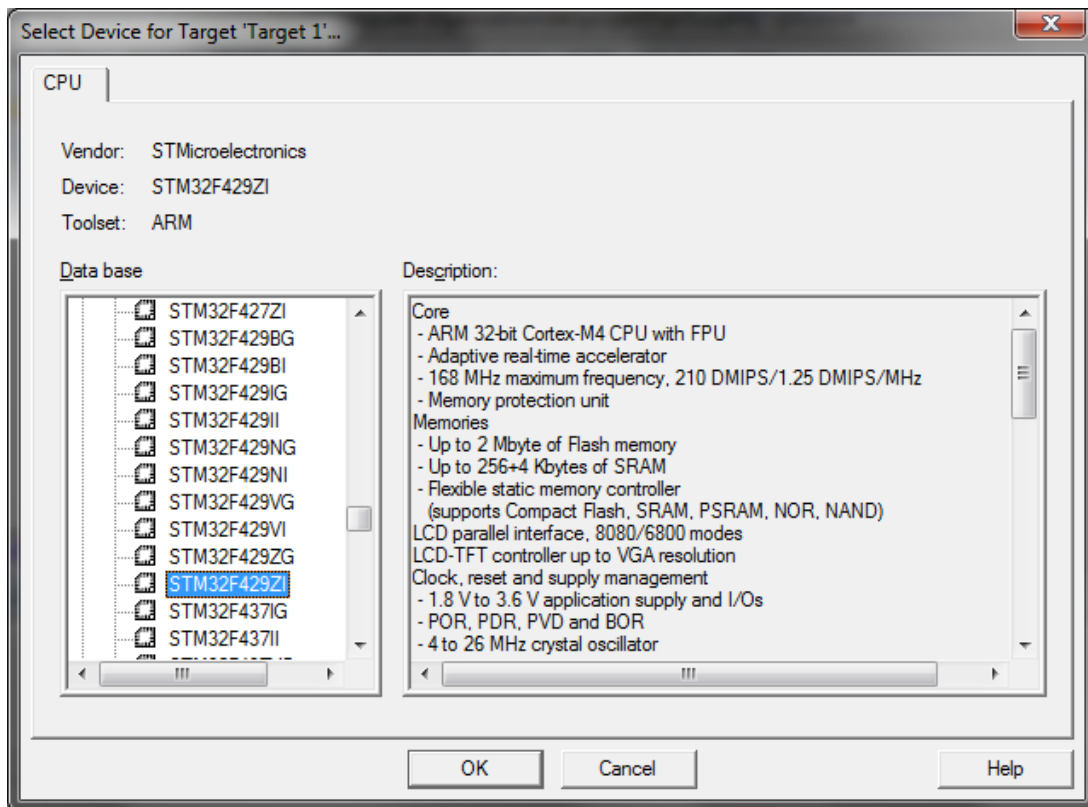
- 2) Create a project folder, give a project name and save project in that folder





3) Choose STM Microelectronics then 32F429ZI

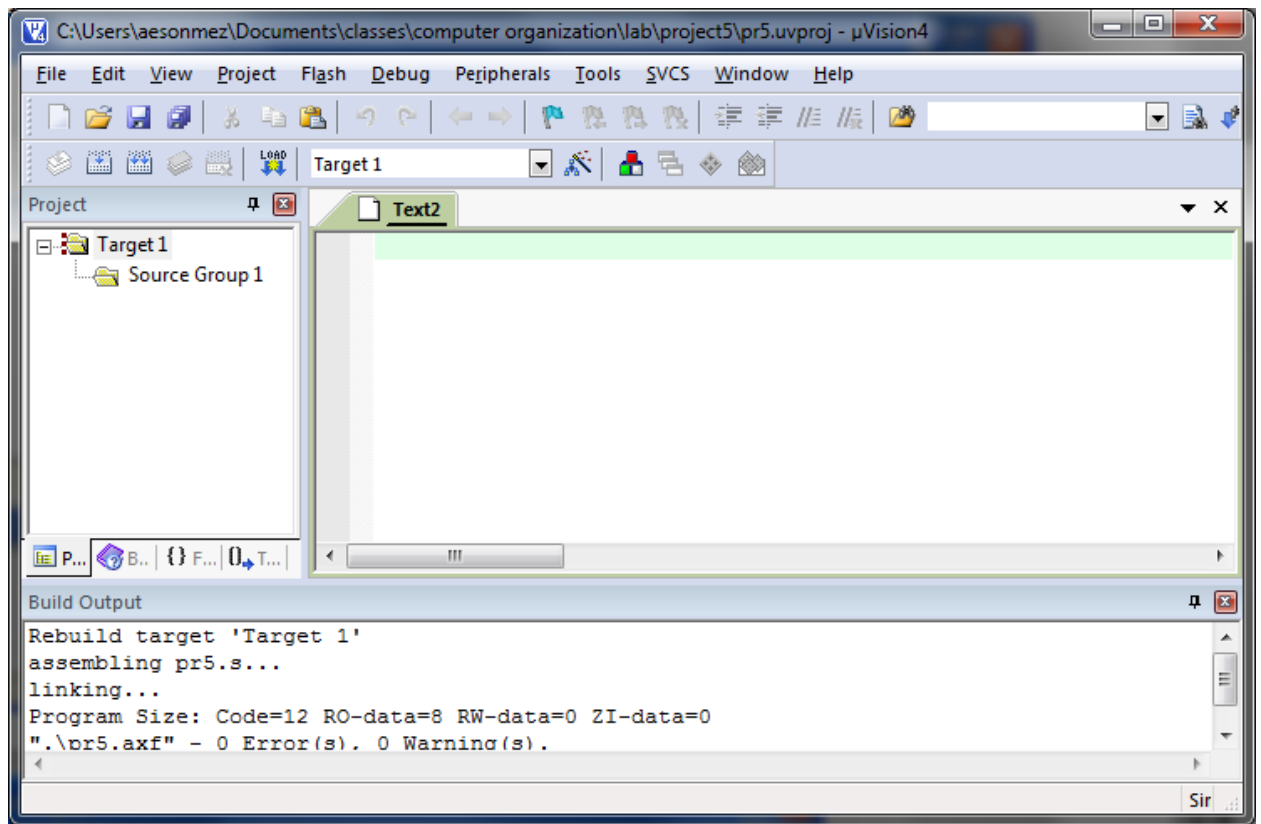




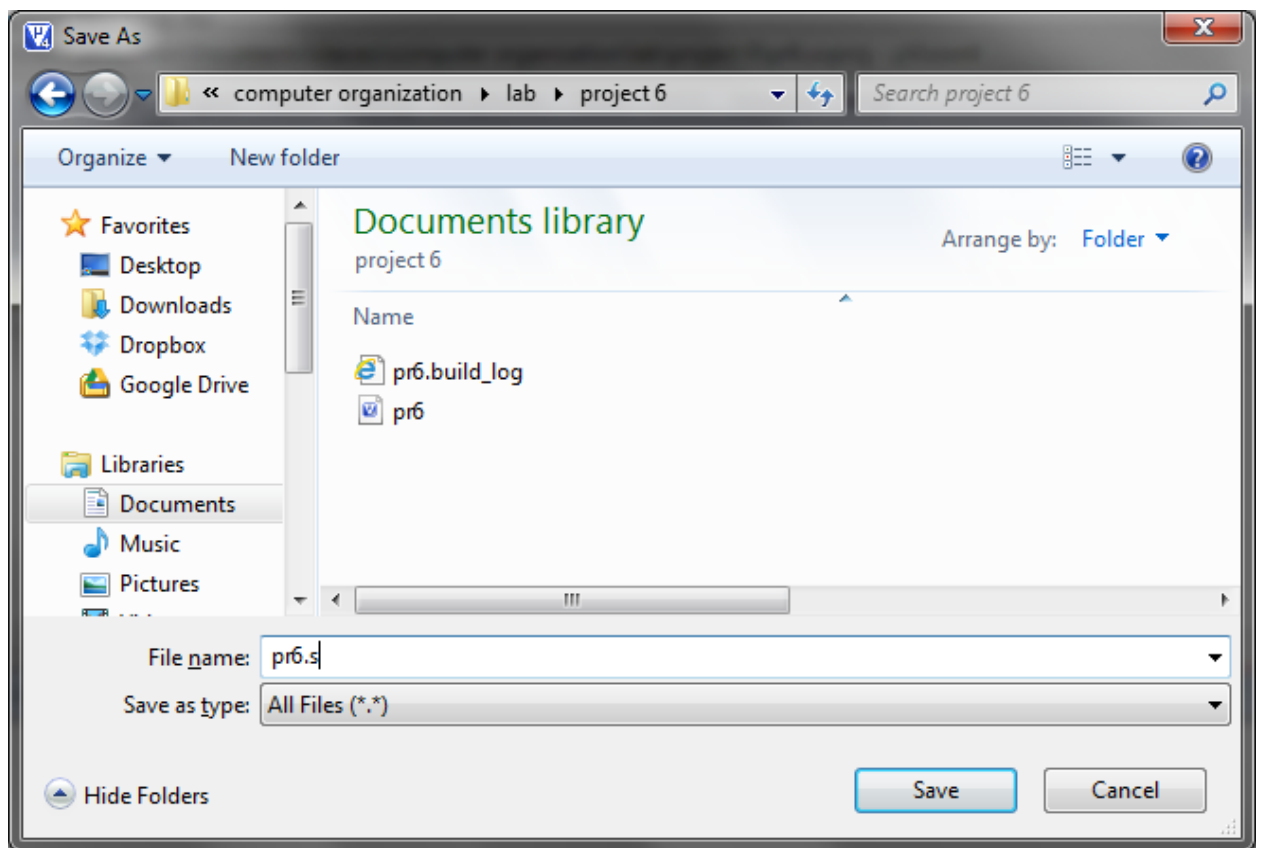
Choose NO on this screen

CREATE A SOURCE FILE

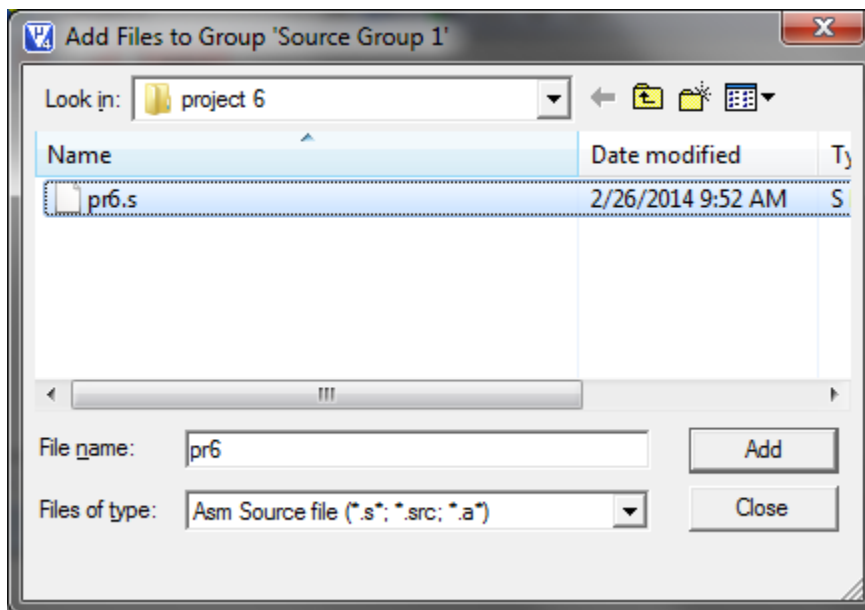
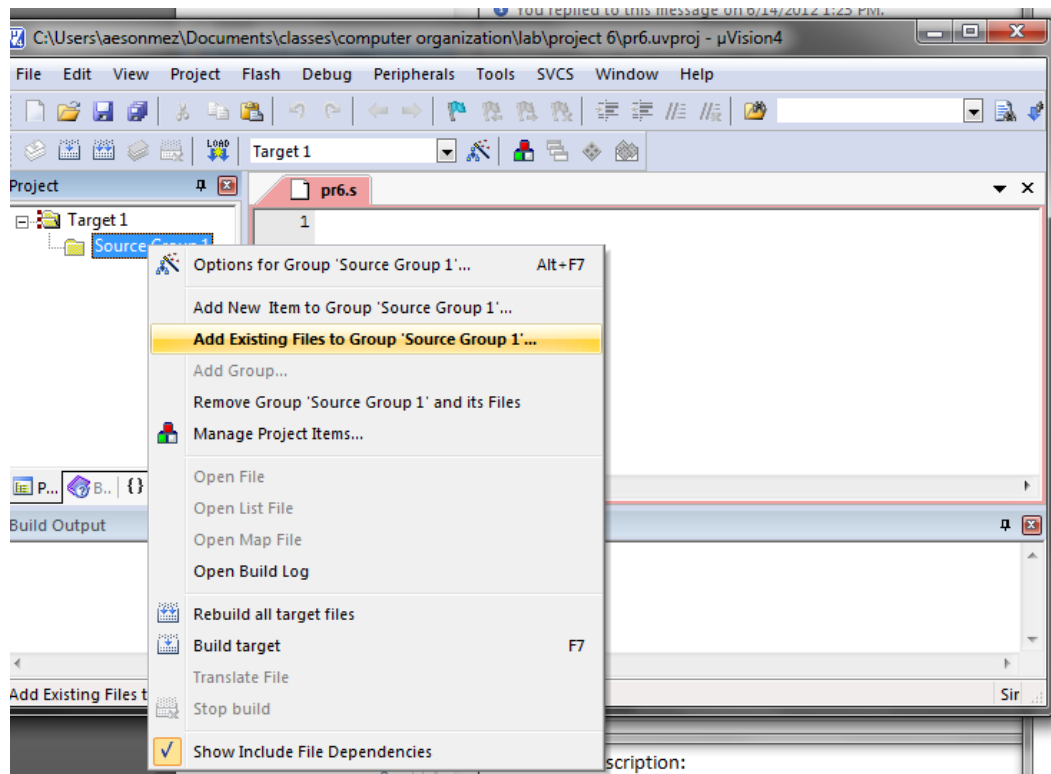
- 4) Create a new empty document, this is going to be the source file



- 5) Save it to the project folder, by adding .s to the file name.

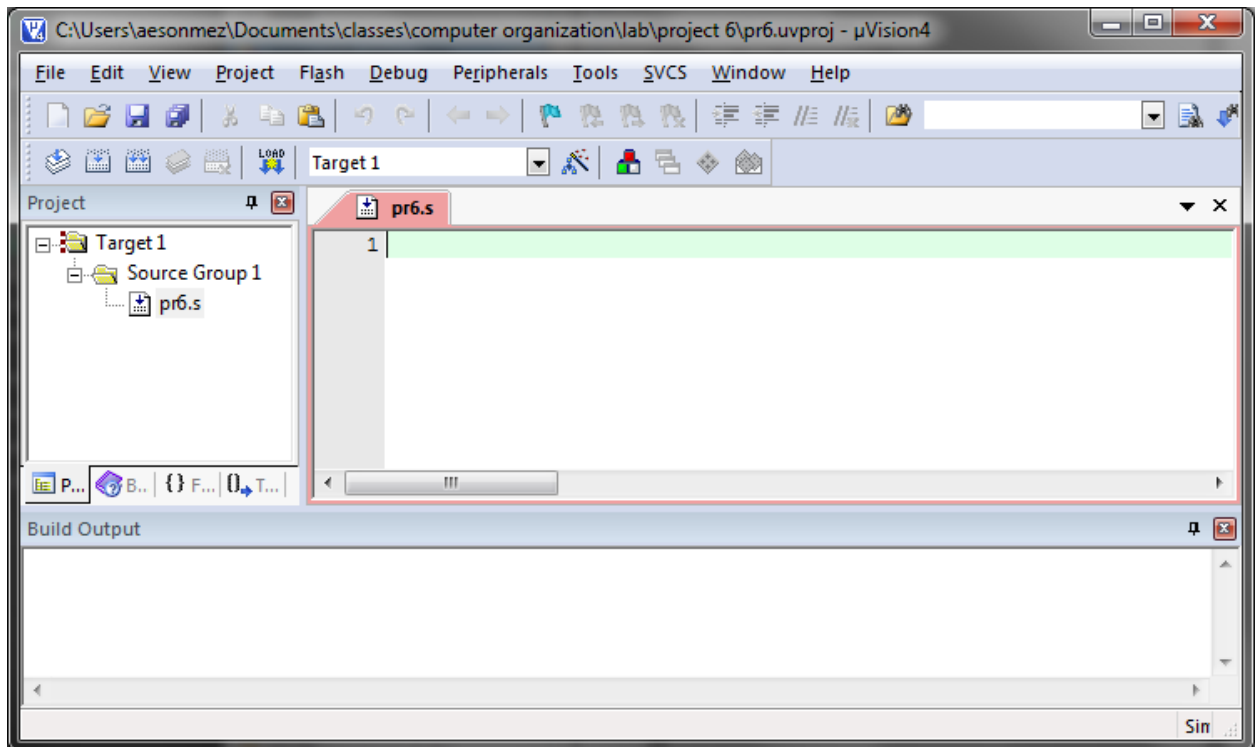


6) Include this file to the project



Add, then close

- 7) Now you should be able to see the source file under project



WRITING YOUR CODE

1) Start with the header

```

;;; Directives
    PRESERVE8
    THUMB

; Vector Table Mapped to Address 0 at Reset
; Linker requires __Vectors to be exported

    AREA  RESET, DATA, READONLY
    EXPORT __Vectors

__Vectors
    DCD 0x20001000 ; stack pointer value when stack is empty
    DCD Reset_Handler ; reset vector

    ALIGN

; The program

```

; Linker requires Reset_Handler

```
AREA MYCODE, CODE, READONLY
```

```
ENTRY
```

```
EXPORT Reset_Handler
```

```
Reset_Handler
```

```
;;;;;;;;;;User Code Starts from the next line;;;;;;;;;;
```

- 2) Then add your code, leave tab spaces before each line

```
MOV R0, #12
```

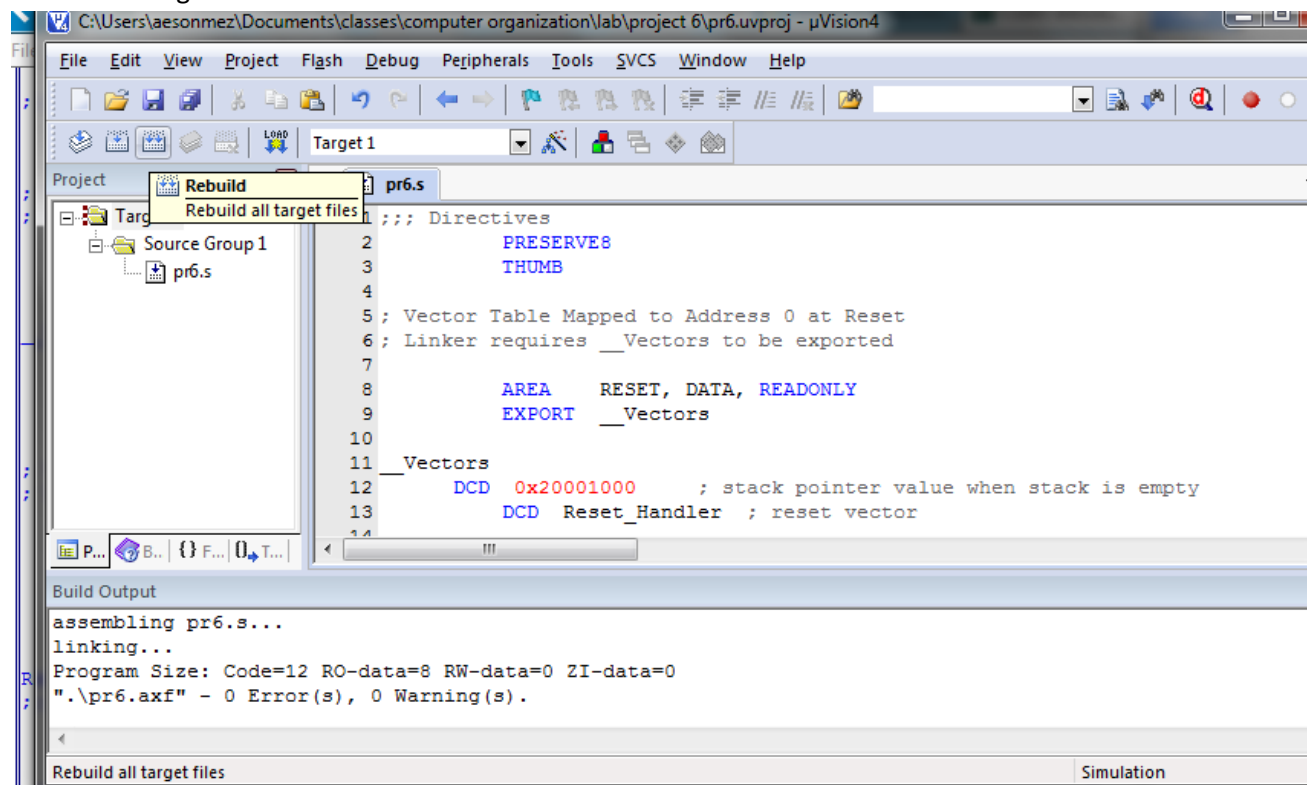
```
MOV R1, #20
```

```
ADD R1, R0, R1
```

```
END
```

COMPILING YOUR CODE

- 1) Rebuild all target files



- 2) Debug your code and observe registers in one line steps (F11)

