## D:\OKUL\ee 4\u00fcn 1\Lab-447\LabFour\QuestionFive\portb\_init.s

```
GPIO_PORTB_DIR
                           EQU 0x40005400
     GPIO_PORTB_AFSEL
GPIO_PORTB_DEN
 2
                           EQU 0x40005420
 3
                           EQU 0x4000551C
 4
     SYSCTL_RCGCGPIO
                           EQU 0x400FE608
    ; PORTS ARE CONNECTED AS
 7
    ;IN1 =>pb0 , IN2=>pb1 , IN3=>pb2 , IN4=>pb3
 8
    ;SW1 =>pb4 , SW2=>pb5 , SW3=>pb6 , SW4=>pb7
                           AREA
 9
                                       main, READONLY, CODE
10
                           THUMB
11
                           EXPORT
                                       portb_init
12
13
     portb_init
                           PROC;
                                        {R0,R1}
14
                           PUSH
15
    Start
                           LDR
                                        R1, =SYSCTL_RCGCGPIO
16
                           LDR
                                        R0,[R1]
17
                           ORR
                                        R0,R0,\#0x2F
18
                           STR
                                        R0,[R1]
19
                           NOP
20
                           NOP
21
                           NOP
22
                           LDR
                                        R1, =GPIO_PORTB_DIR
23
                           LDR
                                        R0,[R1]
24
                           MOV
                                        R0,#0x0F
25
                           STR
                                        R0, [R1]
                                        R1,=GPIO_PORTB_AFSEL
26
                           LDR
27
                           LDR
                                        R0,[R1]
28
                           BIC
                                        R0, #0xFF
29
                           STR
                                        R0,[R1]
30
                           LDR
                                        R1,=GPIO PORTB DEN
                                        R0, [R1]
31
                           LDR
32
                           ORR
                                        RO, #0xFF
33
                           STR
                                        R0,[R1]
34
                           POP
                                        {R0,R1}
35
                           ВХ
                                        LR
```