D:\OKUL\4-1\447 LAB\EXP-4\preq\init_port_b.s

```
0x40005040
     GPIO_PORTB_DATA
                            EQU
                                                  ; data address to all pins
     FPIO_PORTB_IM
GPIO_PORTB_DIR
                                     0x40005010
 2
                            EQU
 3
                            EQU
                                     0x40005400
 4
     GPIO PORTB AFSEL
                            EQU
                                     0x40005420
     GPIO PORTB AMSEL
                            EQU
                                     0x40005428
     GPIO_PORTB_DEN
                            EQU
                                     0x4000551C
     GPIO_PORTB_PUR
 7
                            EQU
                                     0x40005510
 8
     GPIO_PORTB_PCTL
                            EQU
                                     0x4000552C
 9
     IOB
                            EQU
                                     0 \times 0.4
10
     PUB
                            EQU
                                     0x00
11
12
     SYSCTL_RCGCGPIO
                            EQU
                                     0x400FE608
13
14
15
                   AREA
                                main, READONLY, CODE
16
                   THUMB
17
                   EXPORT
                                init port b ; Make available
18
     init_port_b PROC
19
20
                                R1, =SYSCTL_RCGCGPIO
                   LDR
                                R0,[R1]
21
                   LDR
22
                   ORR
                                R0,#0x02
23
                   STR
                                R0,[R1]
24
25
                   NOP
26
                   NOP
27
                   NOP
                                                           ;Stabilize clock
28
29
                   LDR
                                R1,=GPIO PORTB DIR
30
                   LDR
                                R0, [R1]
                                RO, #IOB
31
                   ORR
32
                   STR
                                R0, [R1]
33
34
                   LDR
                                R1,=GPIO_PORTB_AFSEL
35
                   LDR
                                R0,[R1]
36
                   ORR
                                R0,#0x10
37
                   STR
                                R0,[R1]
38
39
                   LDR
                                R1, =GPIO_PORTB_PCTL
40
                   LDR
                                R0,[R1]
41
                   ORR
                                R0, R0, #0x00070000
42
                   STR
                                R0,[R1]
43
44
                   LDR
                                R1,=GPIO PORTB DEN
45
                                R0,[R1]
                   LDR
46
                   ORR
                                R0, R0, #0x10
47
                   STR
                                R0,[R1]
48
49
                   LDR
                                R1,=GPIO PORTB AMSEL
                                                                        ; PORTB initilization part
50
                   MOV
                                R0,#0
51
                   STR
                                R0,[R1]
52
53
                                R1,=GPIO_PORTB_PUR
                   LDR
54
                                RO, #PUB
                   MOV
55
                   STR
                                R0,[R1]
56
57
58
                   ENDP
59
                   ALIGN
60
                   END
```