D:\OKUL\ee 4\u00e4n 1i\Lab-447\LabFour\QuestionOne\portb_init.s

```
GPIO_PORTB_DIR
GPIO_PORTB_AFSEL
GPIO_PORTB_DEN
                            EQU 0x40005400
 2
                            EQU 0x40005420
 3
                            EQU 0x4000551C
 4
     SYSCTL_RCGCGPIO
                            EQU 0x400FE608
 5
 6
 7
                            AREA
                                         main, READONLY, CODE
 8
                            THUMB
 9
                            EXPORT
                                         portb_init
10
11
     portb_init
                            PROC;
12
                            PUSH
                                         {R0,R1}
13
     Start
                            LDR
                                         R1,=SYSCTL_RCGCGPIO
14
                                         R0,[R1]
                            LDR
15
                            ORR
                                         R0,R0,\#0x02
16
                            STR
                                         R0,[R1]
17
                            NOP
18
                            NOP
19
                            NOP
20
                                         R1,=GPIO_PORTB_DIR
                            LDR
21
                                         R0,[R1]
                            LDR
22
                            VOM
                                         R0,#0x0F
23
                            STR
                                         R0,[R1]
24
                            LDR
                                         R1,=GPIO_PORTB_AFSEL
25
                                         R0,[R1]
                            LDR
                                         R0,#0xFF
26
                            BIC
27
                            STR
                                         R0,[R1]
28
                            LDR
                                         R1,=GPIO_PORTB_DEN
                            LDR
29
                                         R0,[R1]
30
                            ORR
                                         R0,#0xFF
31
                                         R0,[R1]
                            STR
32
                            POP
                                         {R0,R1}
33
                            BX
                                         LR
```