

```

1      .data
2      .balign 4
3      pin:      .int 7
4      delay_time: .int 200
5      i:        .int 0
6      error:     .asciz "Error in intitializing\n"
7      OUTPUT     = 1
8
9      .text
10     .global main
11     .extern printf
12     .extern wiringPiSetup
13     .extern pinMode
14     .extern digitalWrite
15     .extern delay
16
17     main:
18         push    {r12, lr}
19         bl      wiringPiSetup
20         mov     r1, #-1
21         cmp     r0, r1
22         bne     init
23         ldr     r0, =error
24         bl      printf
25         b       exit
26
27     @PinMode Setup
28     init:
29         ldr     r0, =pin
30         ldr     r0, [r0]
31         mov     r1, #OUTPUT
32         bl      pinMode
33
34     @ForLoop Setup
35         ldr     r4, =i
36         ldr     r4, [r4]
37         mov     r5, #10
38         mov     r6, #1
39     loop:
40         cmp     r4, r5
41         beq     exit
42
43     @digitalWrite Setup for (pin,1)
44         ldr     r0, =pin
45         ldr     r0, [r0]
46         mov     r1, #1
47         bl      digitalWrite
48     @delay(200)
49         ldr     r0, =delay_time
50         ldr     r0, [r0]
51         bl      delay
52     @digitalWrite Setup for (pin,0)
53         ldr     r0, =pin
54         ldr     r0, [r0]
55         mov     r1, #0
56         bl      digitalWrite
57     @delay(200)
58         ldr     r0, =delay_time
59         ldr     r0, [r0]
60         bl      delay
61     @Adding 1 to i for for loop count
62         add     r4, r4, r6
63         b       loop
64
65     exit:
66         pop     {r12, pc}

```