Task 1:

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| --- |
| .data  .equ LED, 0xff200000  .equ SWITCH, 0xff200040  .text  .global \_start  \_start:  ldr r1,=LED  mov r2, #1  mov r3,#2  loop:  str r2,[r1]  mul r2, r3  b loop |

With delay:

|  |
| --- |
| .data  .equ LED, 0xff200000  .equ SWITCH, 0xff200040  .text  .global \_start  \_start:  ldr r1,=LED  mov r2, #1  mov r3,#2  loop:  str r2,[r1]  mul r2, r3  cmp r2,#512  bgt end  b delay  delay:  ldr r6,=500000  delay\_loop:  sub r6,#1  cmp r6,#0  beq loop  b delay\_loop    end:  b end |

How to implement a delay function:

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| .data  .text  .global \_start  \_start:  mov r1, #0  loop:  add r1, #1  cmp r1,#10  beq end  b delay  delay:  ldr r0,=5000000  delay\_loop:  sub r0,#1  cmp r0,#0  beq loop  b delay\_loop  end:  b end |