1. (a) mov r1, #0x35      = 0011 0101
      and  r2, r1, #0x0F  = 0000 1111
   Value of r2 = 0101 = 5 = 0x05

   (b) mov r0, #0x97      = 1001 0111
       mov r1, #0xF0      = 1111 0000 = 0xF7
       orr r2, r0, r1     r2 = 1111 0111 = 0xF7

   (c) mov r2, #0x4F      = 0100 1111
       mov r3, #0x31      = 0011 1001
       subs r4, r2, r3    r4 = 0001 0110 = 0x16

   (d) mov r0, #0x9a      r0 = 1001 1100
       movs r1, r0, lsr #3   lsr#3  r1 = 0001 0011
       cmp r1, r2

2. (a)      j1 less                (b) mov r1, #1
        mov r3, #5                     mov r2, #0
        jmp   both            loop:    cmp r1, #5
        Less:                          bgt done
        mov R3, #2                     add r2, r2, r1
        Both:                          add r1, r1, #1
                                       b loop
                                  done:

3.    0011  0011
   (a) 1. 1001  1001
       2. 1100  1100
       3. 0110  0110
       4. 0011  0011
       5. 1001  1001
       6. 1100  1100
       7. 0110  0110
   (b.) 4. 0011  0011