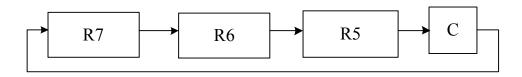
```
; R7.R6 = (R5-1)/4 + K
; if (C = 1) K = R2 + 50h/4
; else K = 4(R1 + R2)
; Author: Redko Alexander
; Date: 21.12.2012
      SEL RB0
      MOV R5, #0FFh
      MOV R1, #0FFh
      MOV R2, #0FFh
      CLR C
      MOV A, R5
      ADD A, \#FFh ; A := R5 - 1
      CLR C
      RRC A
      CLR C
      RRC A
      MOV R6, A; R6 := (R5 - 1)/4
      CLR C
      JC flag_c_1
      MOV A, #50h
      CLR {\bf C}
      RRC A
      CLR C
      RRC A
      CLR C
      ADDC A, R2
      MOV R3, A
      MOV A, R4
      ADDC A, #0h
      MOV R4, A ; R4.R3 = R2 + 50h/4
      JMP addition
flag_c_1:
      CLR C
      MOV A, R1
      ADDC A, R2
      MOV R3, A
      CLR A
      ADDC A, #0h
      MOV R4, A ; R4.R3 = R1 + R2
      CLR C
      MOV A, R3
      RLC A
      MOV R3, A
      MOV A, R4
      RLC A
      MOV R4, A
      CLR C
      MOV A, R3
      RLC A
      MOV R3, A
      MOV A, R4
      RLC A
```

```
addition:
    MOV A, R6
    ADD A, R3
    MOV R6, A
    MOV A, R4
    ADDC A, #00h
    MOV R7, A ; R7.R6 = R4.R3 + R6

NOP
END
```

MOV R4, A



```
; shift of 24 bit word by 4 bits to the right
```

MOV R5, #0h
MOV R6, #0FFh
MOV R7, #0FFh

MOV R2, #4h

loop:

MOV A, R7

RRC A

MOV R7, A

MOV A, R6

RRC A

MOV R6, A

MOV A, R5

RRC A

MOV R5, A

DJNZ R2, loop

END