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;*****
;      Binary Converter SubRoutin To BCD as Two Digit
;INPUTES:R4      8 BIT BINARY NO
;OUTPUTS:R5,R6   UnpackedBCD
;RTEGISTERS:Acc,B,R0
;*****
;This SubRoutin will convert a Binary no at R4 to a BCD at R5,R6
;Note:The Number will returned at Two Digits the the maximum is 99
;But we can check R4 if 1 then BCD=(200+R6*10+R5) ELSE
;check C (CarryFlag) if 1 then BCD=(100+R6*10+R5) ELSE
;BCD=(R6*10+R5)
;*****
BIN2BCD:
    Push a
    Push b
    Push 00
    clr c
    clr a
    mov b,#10h
    mov R7,a
    mov R0,#08
Loop:
    xch  a,R4
    rlc  a
    xch  a,R4
    mov  a,R7
    addc a,R7
    da   a
    mov  R7,a
    djnz R0,Loop
    anl  a,#0FH
    mov  R5,a
    mov  a,R7
    Push PSW
    anl  a,#0F0H
    div  ab
    mov  R6,a
    Pop  PSW
    Pop  00
    Pop  b
    Pop  a
    sjmp BIN2BCD
    ret

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