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;*****
;      Binary Converter SubRoutin To BCD as Two Digit
;INPUTES:R2,R3      16 BIT BINARY NO
;OUTPUTS:R4,R5,R6   PackedBCD
;RTEGISTERS:Acc,B,R0
;*****
;This SubRoutin will convert a Binary no at R2,R3 to a BCD
;At R4,R5,R6 But PackedBCD
;Note:The Number will returned at Three Digits the the maximum Number
;Of Binary Is FFFFH -->65535BCD "Packed means two digits at one byte
;*****
BIN2BCD2:
    Push a
    Push b
    Push 00
    mov  R0,#16
    Lcall BIN2BCD
    mov  a,R7
    mov  R4,a
    mov  R0,#16
    Lcall BIN2BCD
    mov  a,R7
    mov  R5,a
    mov  R0,#16
    Lcall BIN2BCD
    mov  a,R7
    mov  R6,a
    Pop  00
    Pop  b
    Pop  a
    sjmp BIN2BCD2

BIN2BCD:
    clr  c
    clr  a
    mov  b,#10h
    mov  R7,a
Loop:
    xch  a,R2
    rlc  a
    xch  a,R2
    xch  a,R3
    rlc  a
    xch  a,R3
    mov  a,R7
    addc a,R7
    da   a
    mov  R7,a
    jnc  Continu
    Push a
    clr  a
    addc a,R2
    mov  R2,a
    clr  a
    addc a,R3
    mov  R3,a
    Pop  a
Continu:
    djnz R0,Loop
    ret

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