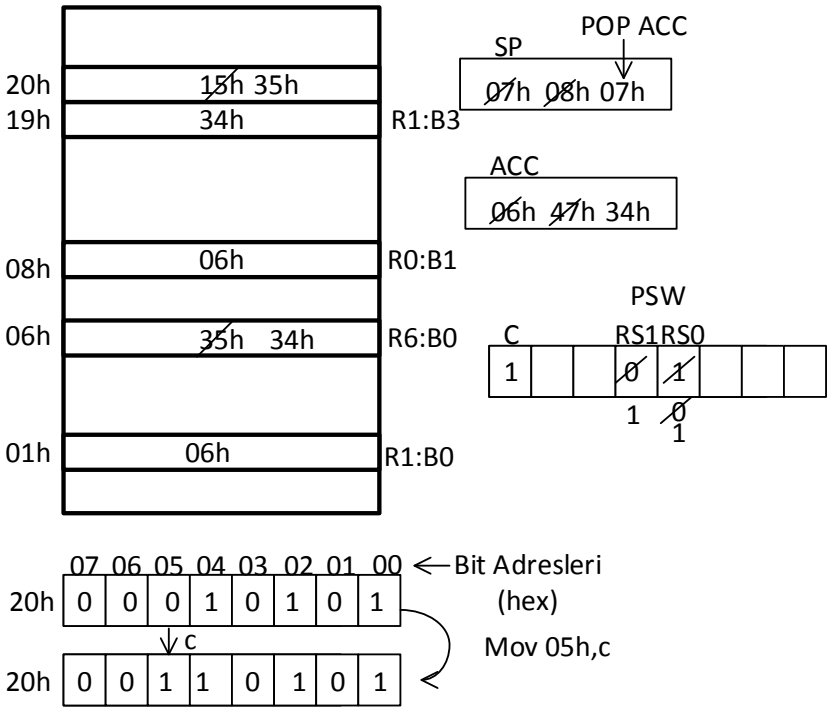
```
;10h = sayi1
    ;11h = sayi2                          ;p3.0 -> sayi1 oku butonu
    ;p3.7 -> sayi2 oku butonu   ;p3.1 -> toplama islemi butonu
    ;p3.2 -> cikarma islemi butonu  ;p3.3 -> faktoriyel al islemi   ;p2.0 -> negatif ledi
    ;p2.1 -> tasma ledi
#include<ADUC841.H>
                btn_toplam      equ     p3.1
                btn_cikarma     equ     p3.2
                btn_faktoriyel  equ     p3.3
                btn_sayigir1    equ     p3.0
                btn_sayigir2    equ     p3.7
                led_tasma       equ     p2.1
                led_negatif     equ     p2.0
                org     0000h
basla:
                mov     10h,#00h ; sayi1=0
                mov     11h,#00h ; sayi2=0
                mov     p0,#00h  ; ledler sonuk
                mov     dptr,#tablo
devam:
                call    btn_sayigirisi_kontrolu
                call    btn_toplama_kontrolu
                call    btn_cikarma_kontrolu
                call    btn_faktoriyel_kontrol
                sjmp    devam
btn_cikarma_kontrolu:
                jb      btn_cikarma,c2
                clr     c
                mov     a,10h           ; sayi1
                subb    a,11h           ; cikartma isl.
                mov     p0,a
                clr     led_negatif
                jnc     c2
                setb    led_negatif     ; negatif ledi yandi
            c2: ret
btn_toplama_kontrolu:
                jb      btn_toplam,b2
                mov     a,10h
                add     a,11h
                mov     p0,a
                clr     led_tasma       ; tasma ledi temizlendi
                jnc     b2              ; c biti test et. tasma icin
                setb    led_tasma       ; tasma ledi yakildi
            b2: ret
btn_sayigirisi_kontrolu:
                ; sayi1 butonu kontrolu
                jb      btn_sayigir1,x2  ; basilmamissa sayi2 buton kontrolu
            x1: jnb     btn_sayigir1,x1  ; btn biraklinca sayi 1 belirle
                mov     a,p2
                anl     a,#00011111b
                movc    a,@a+dptr
                mov     10h,a           ; sayi1
                ; sayi2 butonu kontrolu
            x2: jb      btn_sayigir2,x4
            x3: jnb     btn_sayigir2,x3
                mov     a,p2
                anl     a,#00011111b
```

```
                movc    a,@a+dptr
                mov     11h,a           ;sayi 2
            x4: ret
btn_faktoriyel_kontrol:
                jb      btn_faktoriyel,e2
                mov     a,10h
                dec     10h
            e3: mov     b,10h
                mul     ab
                djnz    10h,e3
                clr     led_tasma
                jnb     psw.2,e2  ; ov biti ov,e2
                setb    led_tasma
            e2: ret
tablo: db
0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32
                end
```

burası hatalı. ov biti testini döngü içine al.

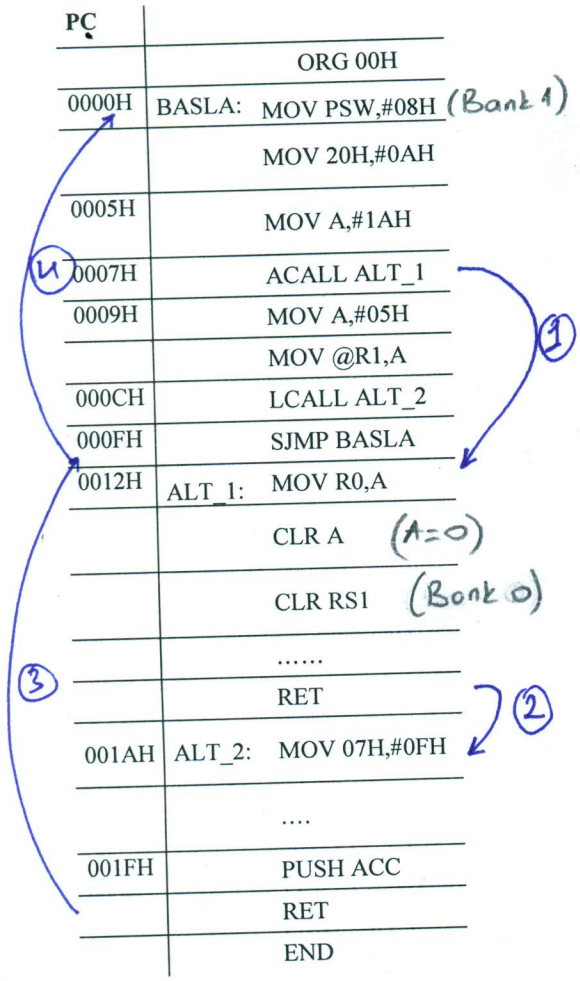
CEVAP 2:

```
#include<aduc841.h>
org 00h
        sjmp basla
        basla:
        mov 01h,#06h
        mov sp,#08h
        mov 20h,#15h
        setb rs0
        setb c
        mov 05h,c
        mov 08h,#06h
        mov @r0,20h
        clr psw.3
        dec r6
        pop acc
        orl a,#45h
        mov a,@r1
        mov psw,#18h
        mov r1,a
        end
```

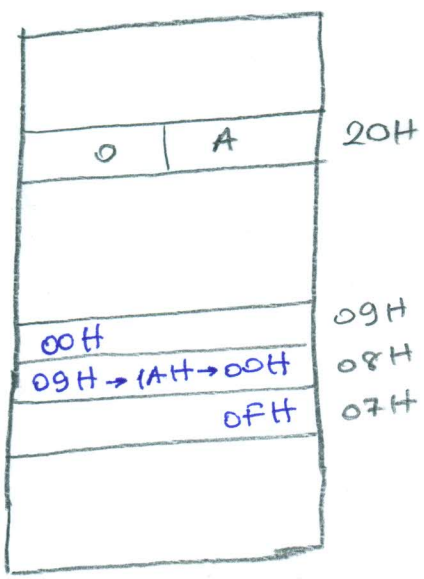


CEVAP3

	PC	
K1		ORG 00H
K2	0000H	BASLA: MOV PSW,#08H (Bank 1)
K3		MOV 20H,#0AH
K4	0005H	MOV A,#1AH
K5	0007H	ACALL ALT_1
K6	0009H	MOV A,#05H
K7		MOV @R1,A
K8	000CH	LCALL ALT_2
K9	000FH	SJMP BASLA
K10	0012H	ALT_1: MOV R0,A
K11		CLR A (A=0)
K12		CLR RS1 (Bank 0)
		.....
K13		RET
K14	001AH	ALT_2: MOV 07H,#0FH
		....
K15	001FH	PUSH ACC
K16		RET
K17		END



RAM



K5: ACALL ALT_1

(PC) ← (PC)+2
(SP) ← (SP)+1
((SP)) ← PCL
(SP) ← (SP)+1
((SP)) ← PCH

PC : 0009H
SP : 08H
PCL : 09H
SP : 09H
PCH : 00H

K13: RET

PCH ← ((SP))
(SP) ← (SP)−1
PCL ← ((SP))
(SP) ← (SP)−1

PCH : 00H
SP : 08H
PCL : 1AH
SP : 07H

Dönüş adresi 001AH

K15: PUSH

(SP) ← (SP+1)
((SP)) ← ACC

SP : 08H
08H = 00H

K16: RET

PCH ← ((SP))
(SP) ← (SP)−1
PCL ← ((SP))
(SP) ← (SP)−1

PCH : 00H
SP : 07H
PCL : 0FH
SP : 06H

Dönüş adresi 000FH