Soru 1: N! Hesabı yapan assembly program:

TTL Ders1

AREA Program, CODE, READONLY

ENTRY

MOV r1,#7 ;n

LDR R0,=1 ; r0 = n!

MOV r2,r1 ;temp

bas

CMP r2,#1

BLO son ;{

MUL r0,r2,r0

SUB r2,r2,#1

B bas ;}

son

END

Soru2 : 30 tane sola shift yapan programı yazınız (döngü ile)

TTL Ders1

AREA Program, CODE, READONLY

ENTRY

;int counter = 0;

;int sayi = 0xAAAAAAA;

;while(counter < 30){

;sayi = sayi << 1;

;counter++;

;}

MOV r0,#1 ;counter

LDR R1,=0xAAAAAAA ;sayi

bas

CMP r0,#30

BGT son

LSLS R1,R1,#1

ADD r0,r0,#1

B bas

son

END

Soru3 : birden N e kadar olan sayıları toplayan program

TTL Ders1

AREA Program, CODE, READONLY

ENTRY

MOV r0,#1000 ;N

LDR R1,=0 ;sum

MOV r2,#1 ;counter

kontrolet

CMP r2,r0 ;if (counter <= N)

BGT son

ADD r1,R1,r2 ; sum += counter

ADD r2,R2,#1

B kontrolet

son

END

Çözüm 2:

TTL Ders1

AREA Program, CODE, READONLY

ENTRY

MOV r0,#1000 ;N

LDR R1,=0 ;sum

MOV r2,#1 ;counter

bas

ADD r1,R1,r0 ; sum += counter

SUB r0,r0,#1

CMP r0,#0 ;if (counter <= N)

BNE bas

END