~~TITLE~~: LAB10: Develop an ALP, to compute nCr, using recursive procedure.

.MODEL SMALL

.DATA

N   DB   05H
R   DB   02H
NCRVAL DW   01H   DUP (?)

. CODE
START :   MOV AX, @DATA
           MOV DS,   AX

           MOV CL, R
           MOV CH, N
           XOR AX, AX

           CALL NCR
           MOV [NCRVAL],AX
           MOV AH, 4CH
           INT 21H

NCR PROC NEAR
           CMP CH, CL
           JE   EQUAL
           JC   FINISH
           CMP CL, 01H

```
            JE   NEXT
            CMP  CL, 00H
            JE   EQUAL
            DEC  CH
            PUSH CX
            CALL NCR
            POP  CX
            DEC  CL
            CALL NCR
            RET


NEXT:       XOR  BX, BX
            MOV  BL, CH
            ADD  AX, BX


RET

EQUAL:      ADD AX, 01H
FINISH;     RET
NCR ENDP
```