LAB-6
nCr program

```asm
.model small
.DATA
N DW 4
R DW 2
NCR DW 0

.CODE
    mov AX, @DATA
    mov DS, AX
    mov AX, N
    mov BX, R
    CALL NCRPRO
    CALL DISP
    JMP FINAL

NCRPRO PROC NEAR
    CMP AX, BX
    JE RES1
    CMP BX, 0
    JE RES1
    CMP BX, 1
    JE RESN
    DEC AX
    CMP BX, AX
    JE INCR
    PUSH AX
    PUSH BX
    CALL NCRPRO
```

```
POP   BX
POP   AX
DEC   BX
PUSH  AX
PUSH  BX
CALL  NCR PRO
POP   BX
POP   AX
RET
RS1: INC NCR
RET


INCR: INC NCR
RESN: ADD NCR, AX
RET
NCRPRO ENDP


DISP  PROC NEAR
      MOV BX, NCR
      ADD BX, 3030H
      MOV DL, BH
      MOV AH, 02H
      INT 21H
      MOV DL, BL
      MOV AH, 02H
      INT 21H
      RET
      DISP ENDP
   FINAL: MOV AH, 4CH
          INT 21H
          END
```

```
ENTER SECOND STRING: MASM

STRINGS ARE EQUAL
LENGTH OF STRING IS 4
C:\MASM>MASM NCR.ASM;;
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    51758 + 464786 Bytes symbol space free

        0 Warning Errors
        0 Severe   Errors

C:\MASM>LINK NCR.OBJ;;

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LINK : warning L4021: no stack segment

C:\MASM>NCR
06
C:\MASM>_
```