Tugas Mata Kuliah

PRAKTEK MIKROPROSESOR DAN BAHASA RAKITAN

Dosen : Andi Susilo, S.Kom., M.T.I

TUGAS PRAKTIKUM 4

PENERAPAN STACK PADA MANIPULASI KARAKTER

Oleh :

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(2020230032)

SARJANA

PROGRAM STUDI TEKNOLOGI INFORMASI 20

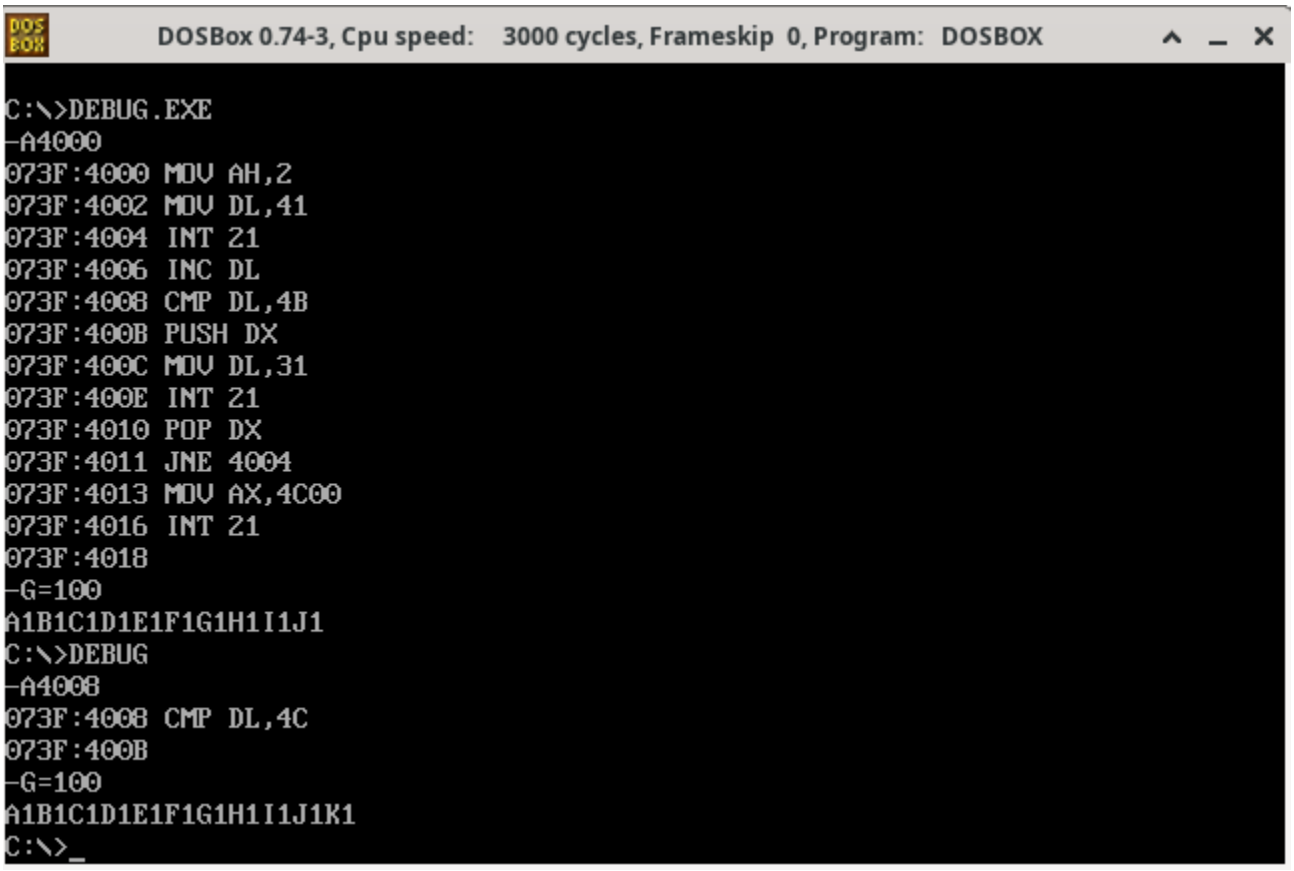
UNIVERSITAS DARMA PERSADA

BEKASI

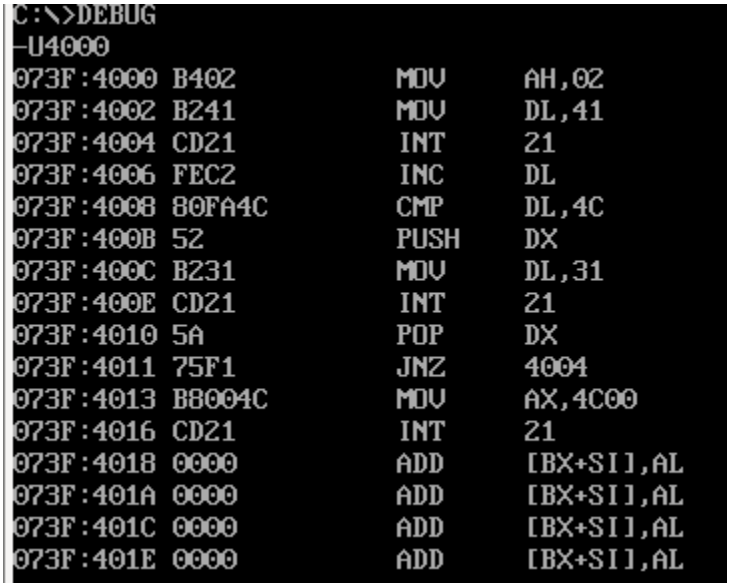
Bekasi, 27 Mei 2022

2. Output A1B1C1D1E1F1G1H1J1K1

Menggunakan CMP, JXX



Listing program dengan U4000

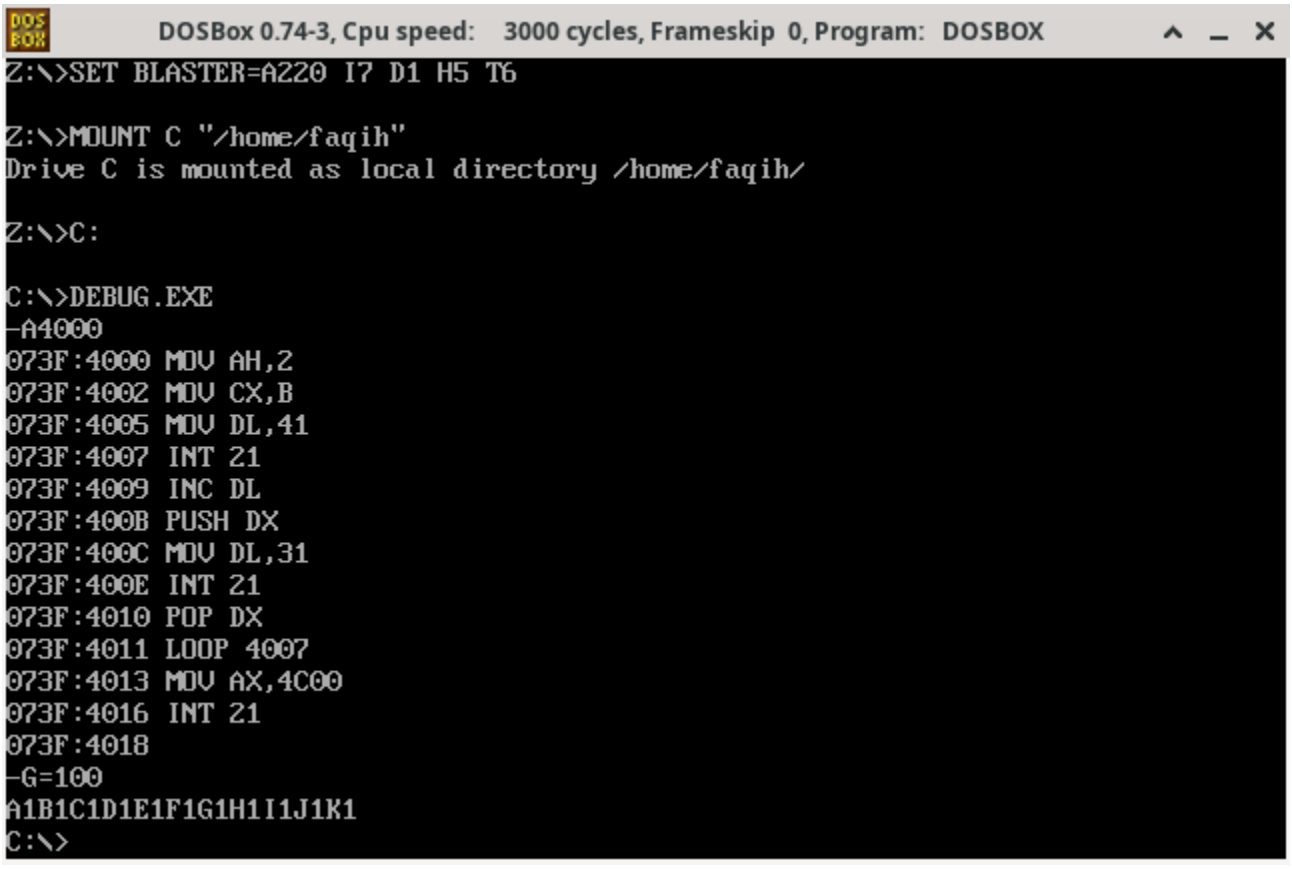


Kode Program:
-A4000
MOV AH,2
MOV DL,41
INT 21
INC DL
CMP DL,4C
PUSH DX

MOV DL,31
INT 21

POP DX
JNE 4004
MOV AX,4C00
INT 21

Menggunakaan Looping



*Seharusnya G=4000 namun debug tetap berjalan walaupun kita memanggil G=100

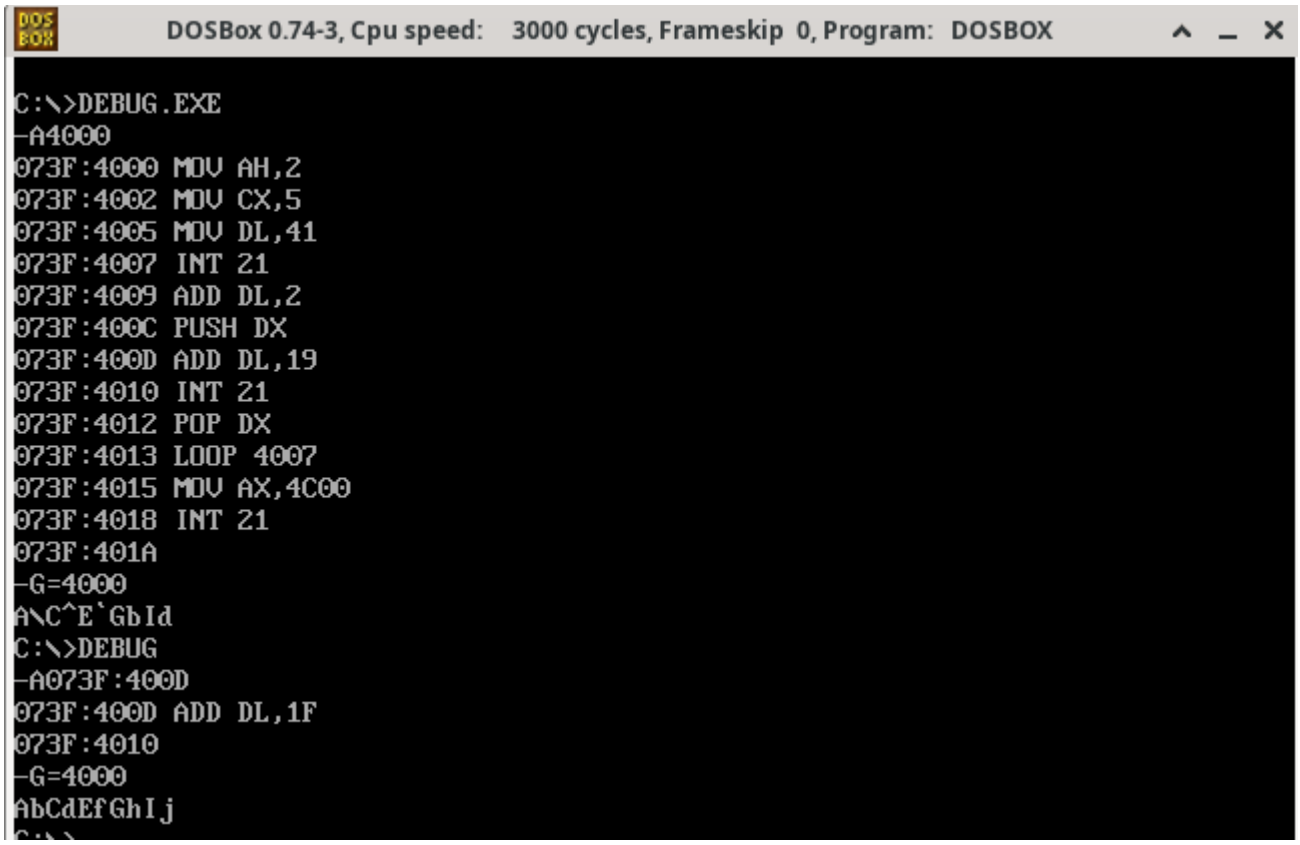
Listing program dengan U4000

```
C:\>DEBUG
-U4000
073F:4000 B402          MOV     AH,02
073F:4002 B90B00        MOV     CX,000B
073F:4005 B241          MOV     DL,41
073F:4007 CD21          INT     21
073F:4009 FEC2          INC     DL
073F:400B 52            PUSH    DX
073F:400C B231          MOV     DL,31
073F:400E CD21          INT     21
073F:4010 5A            POP     DX
073F:4011 E2F4          LOOP    4007
073F:4013 B8004C        MOV     AX,4C00
073F:4016 CD21          INT     21
073F:4018 0000          ADD     [BX+SI],AL
073F:401A 0000          ADD     [BX+SI],AL
073F:401C 0000          ADD     [BX+SI],AL
073F:401E 0000          ADD     [BX+SI],AL
```

Kode program:
MOV AH,2
MOV CX,B
MOV DL,41
INT 21
INC DL
PUSH DX
MOV D,41
INT 21
POP DX
LOOP 4007
MOV AX,4C00
INT 21

4. Output AbCdEfGhIj

Menggunakan Looping



Listing program dengan U4000

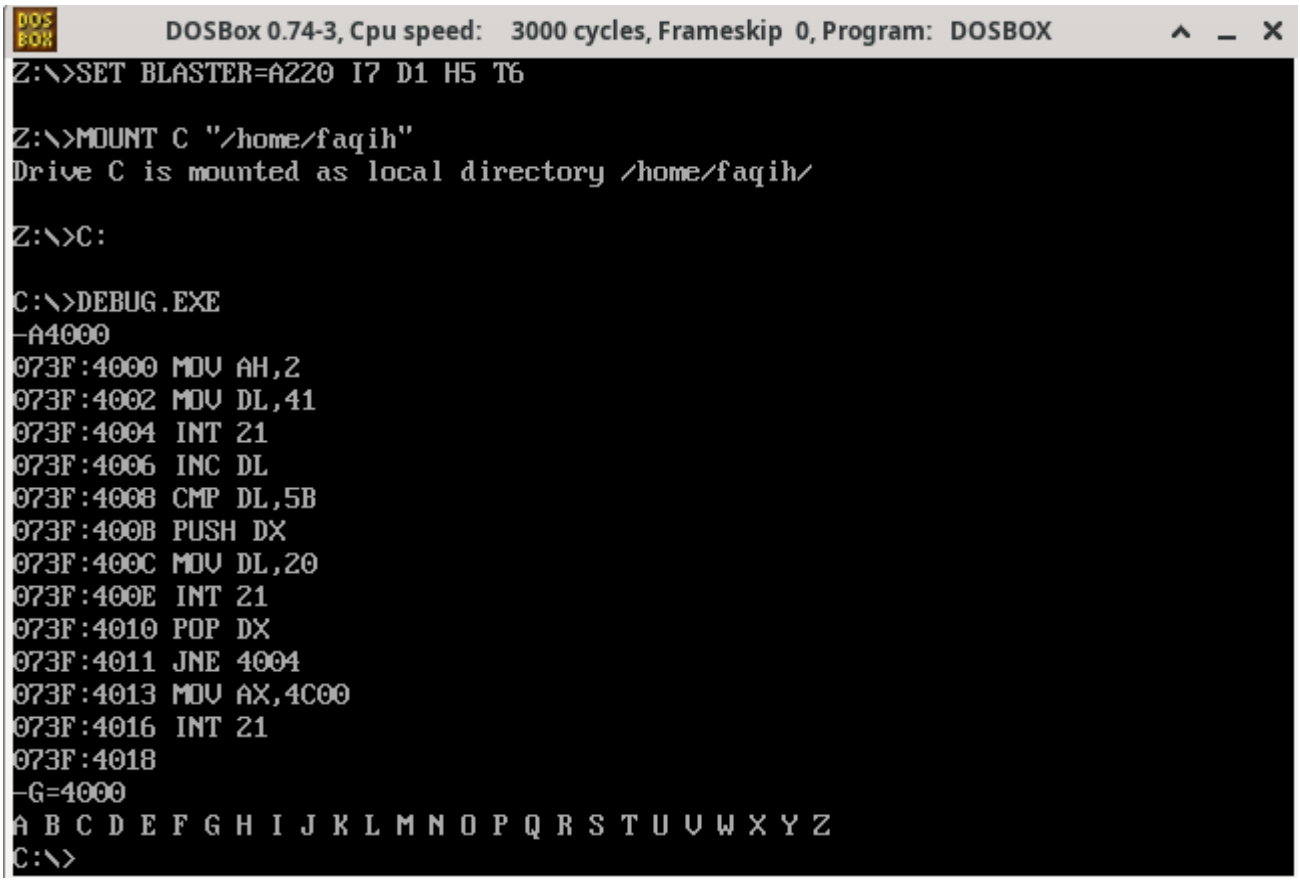
```
C:\>DEBUG
-U4000
073F:4000 B402          MOV     AH,02
073F:4002 B90500        MOV     CX,0005
073F:4005 B241          MOV     DL,41
073F:4007 CD21          INT     21
073F:4009 80C202        ADD     DL,02
073F:400C 52            PUSH    DX
073F:400D 80C21F        ADD     DL,1F
073F:4010 CD21          INT     21
073F:4012 5A            POP     DX
073F:4013 E2F2          LOOP    4007
073F:4015 B8004C        MOV     AX,4C00
073F:4018 CD21          INT     21
073F:401A 0000          ADD     [BX+SI],AL
073F:401C 0000          ADD     [BX+SI],AL
073F:401E 0000          ADD     [BX+SI],AL
-
```

Kode program:

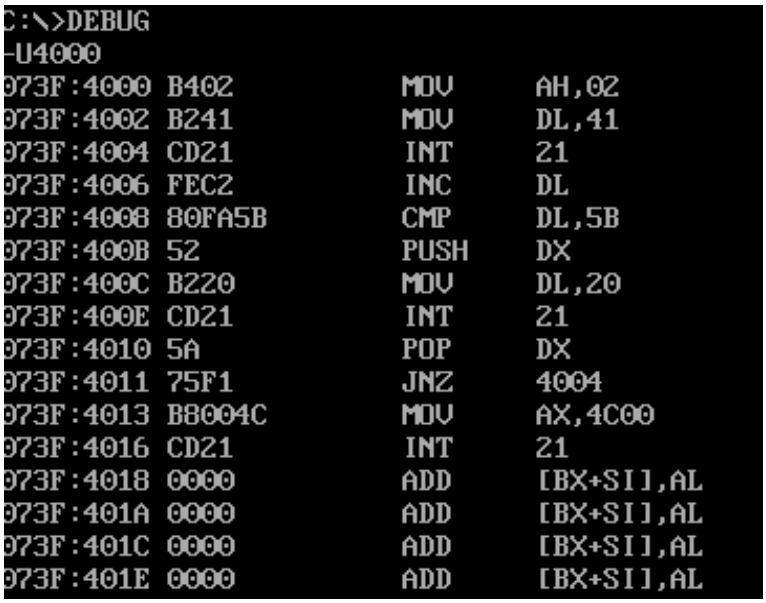
```
-A4000
MOV AH,2
MOV CX,5
MOV DL,41
INT 21
ADD DL,2
PUSH DX

ADD DL,1F
INT 21

POP DX
LOOP 4007
MOV AX,4C00
INT 21
```

6. Output A B C D E F G H I K L M N O P Q R S T V X Y Z

Menggunakan CMP dan Jxx

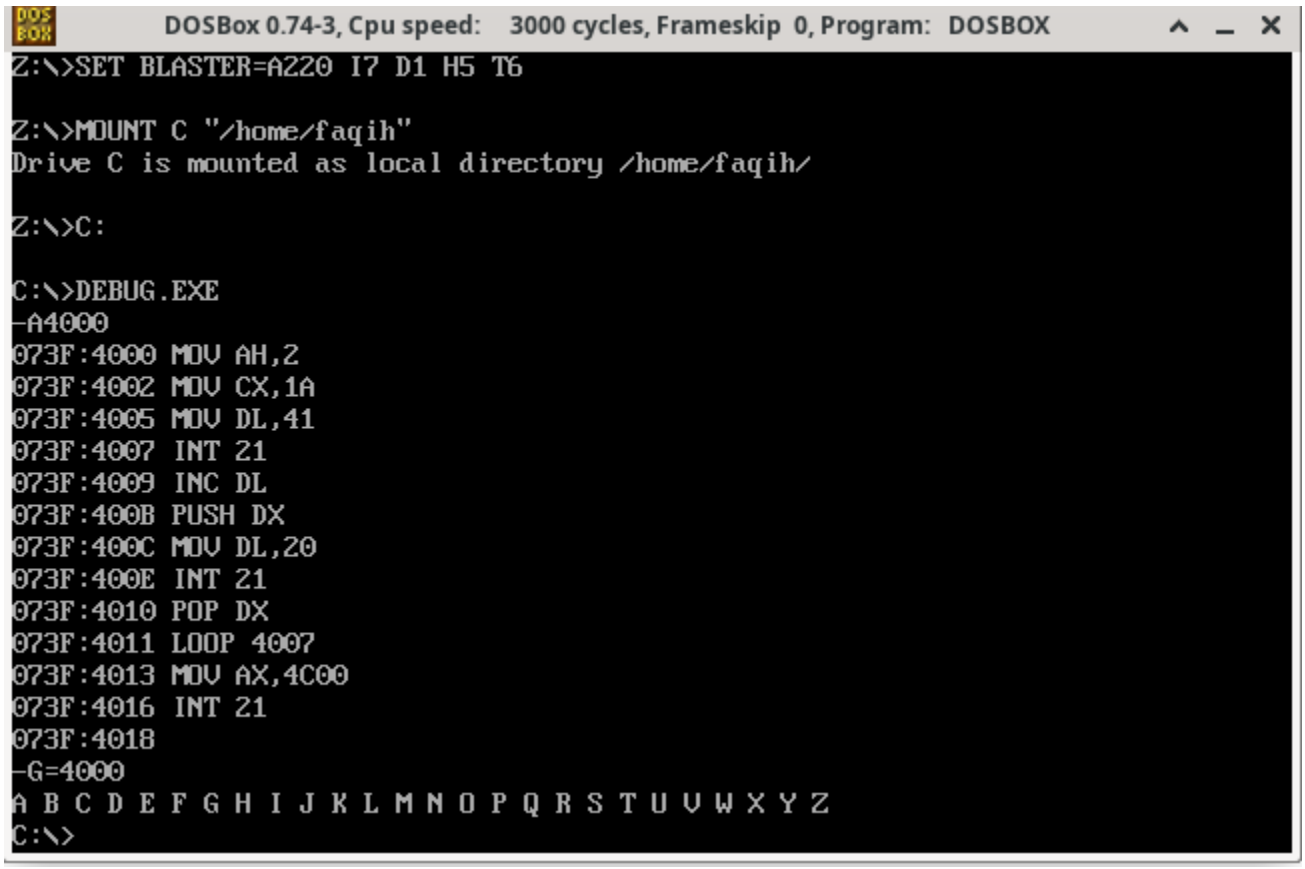


Listing Program

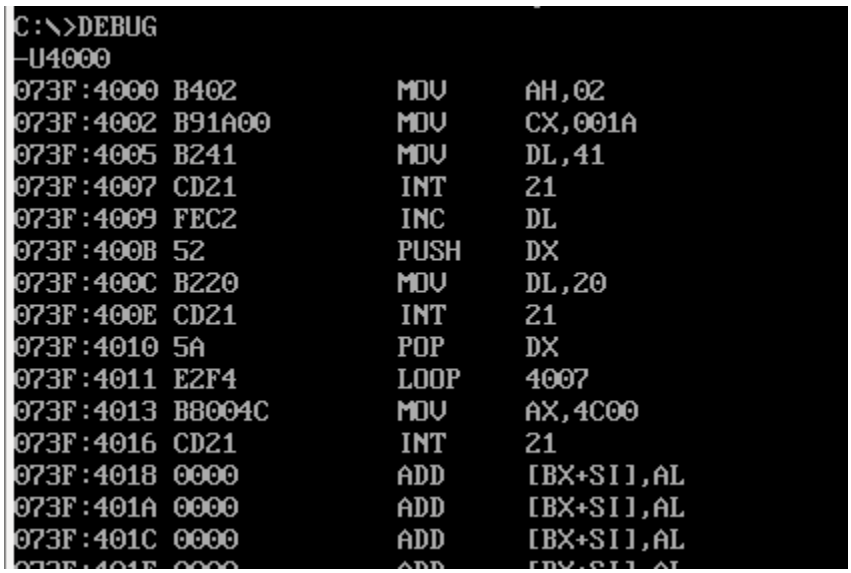


Kode program:
-A4000
MOV AH,2
MOV DL,41
INT 21
INC DL
CMP DL,5B
PUSH DX
MOV DL,20
INT 21
POP DX
JNE 4004
MOV AX,4C00
INT 21

Menggunakan Looping



Listing program menggunakan U4000

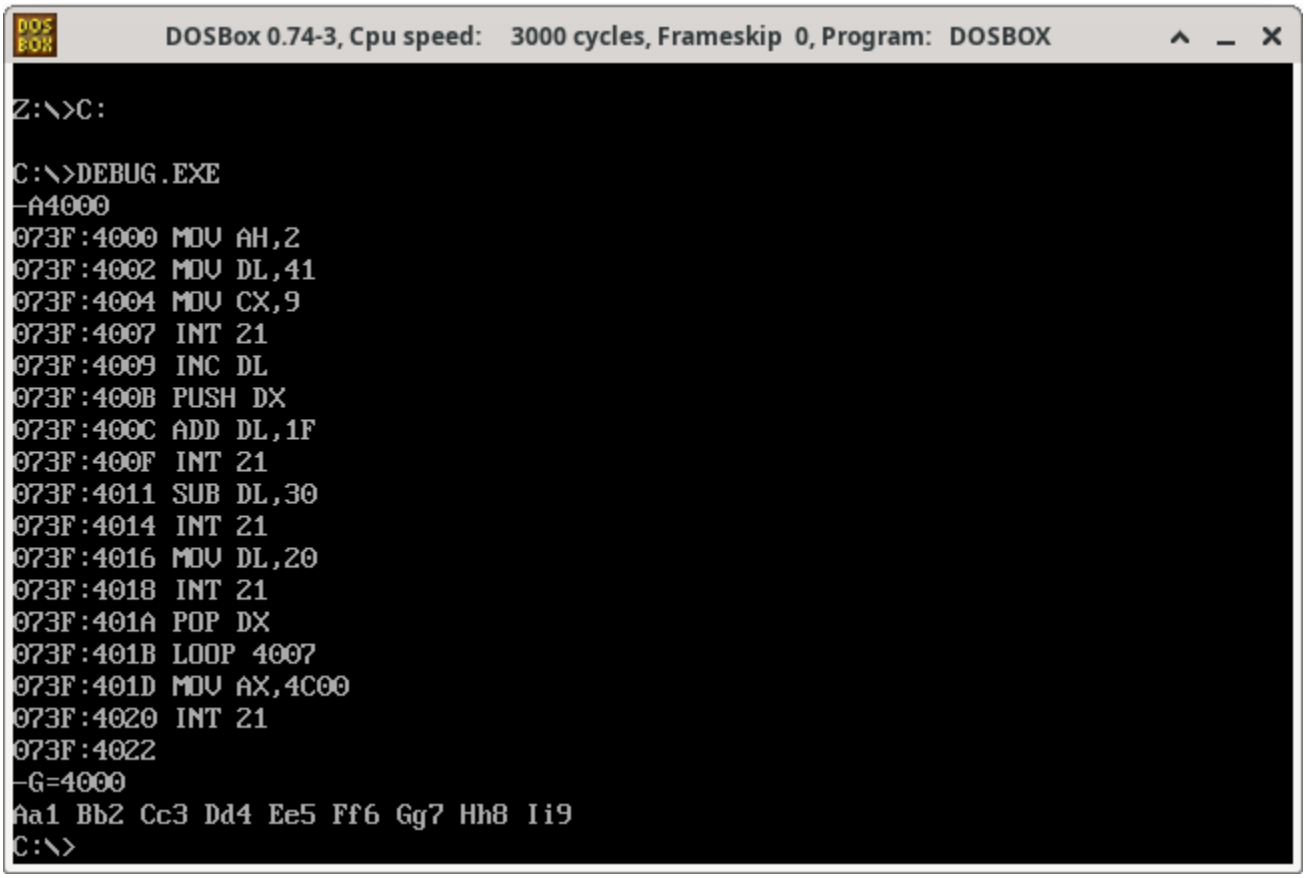


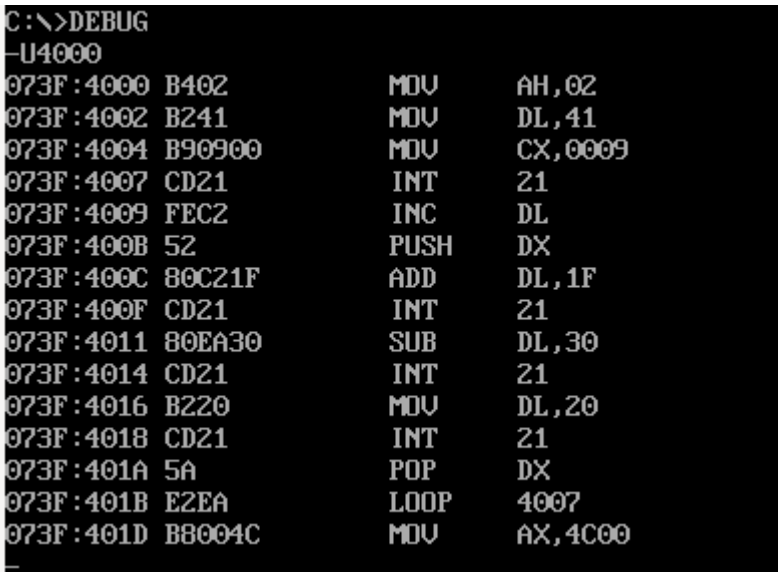
Kode program:
-A4000
MOV AH,2
MOV CX,1A
MOV DL,41
INT 21
INC DL
PUSH DX

MOV DL,20
INT 21

POP DX
LOOP 4007
MOV AX,4C00
INT 21

8. Output Aa1 Bb2 Cc3 Dd4 Ee5 Ff6 Gg7 Hh8 Ii9 menggunakan looping

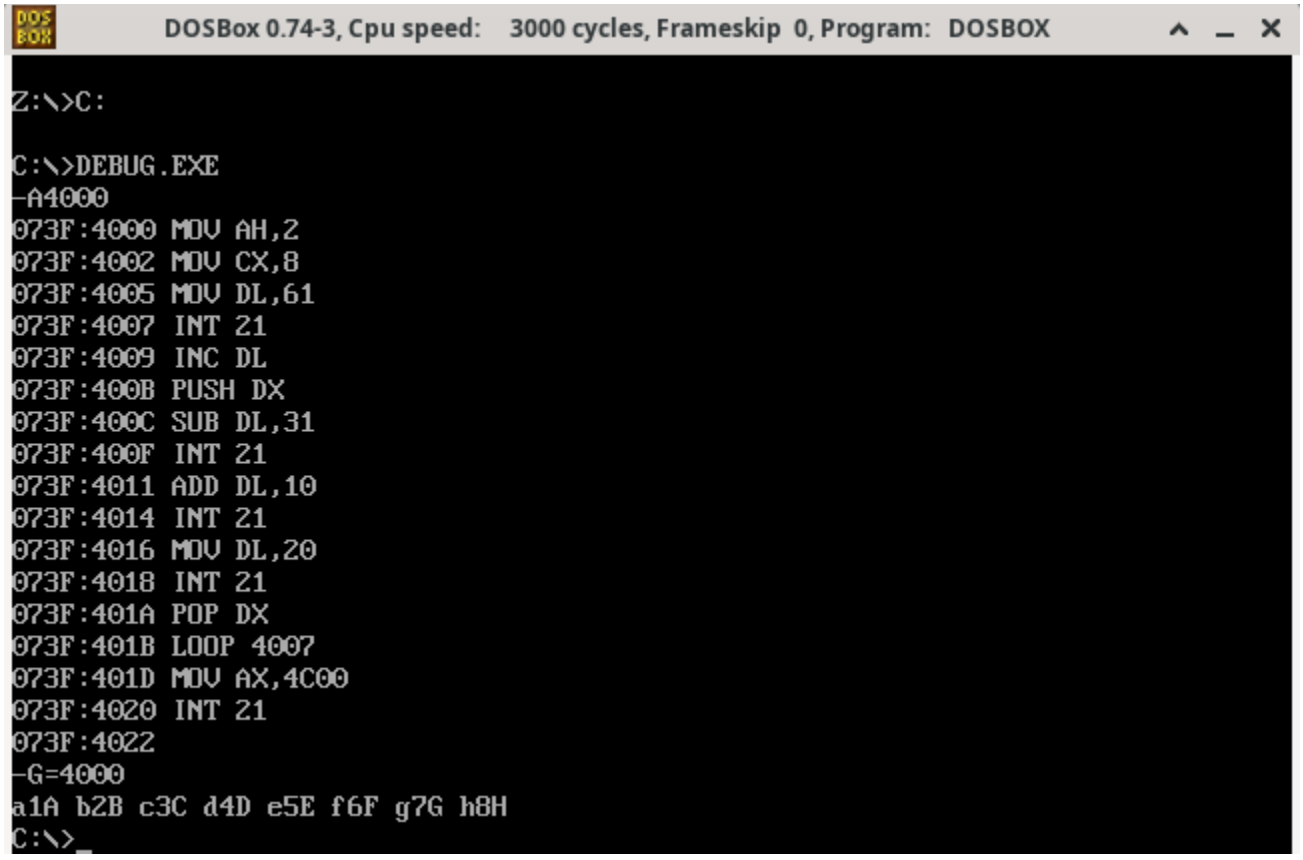




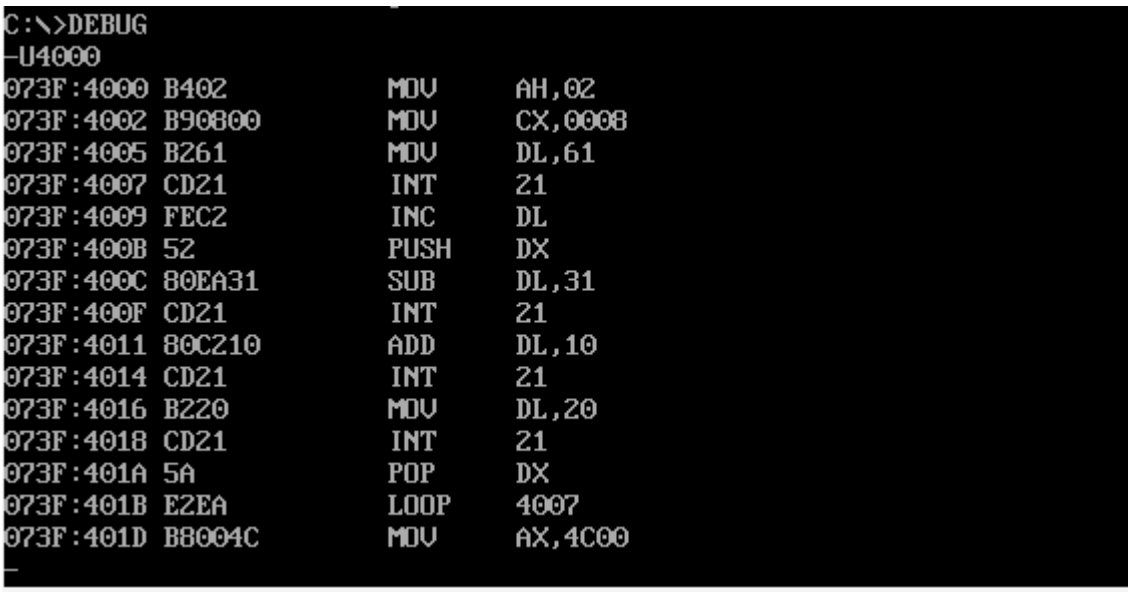
Kode program:

```
-A4000
MOV AH,2
MOV DL,41
MOV CX,9
INT 21
INC DL
PUSH DX
ADD DL,1F
INT 21
SUB DL,30
INT 21
MOV DL,20
INT 21
POP DX
LOOP 4007
MOV AX,4C00
INT 21
```

10. Output a1A b2B c3C d4D e5E f6F g7G h8H



Listing program dengan U4000



Kode program:
-A4000
MOV AH,2
MOV CX,8
MOV DL,61
INT 21
INC DL
PUSH DX
SUB DL,31
INT 21
ADD DL,10
INT 21
MOV DL,20
INT 21
POP DX
LOOP 4007
MOV AX,4C00
INT 21