

```
;NAME:: LUNGADE KIRAN SANJAY
;ROLL NO.:: 39
;BATCH:: S2
;TITLE:: CONVERTING BINARY NUMBER TO HEXADECIMAL NUMBER
```

```
INPUTSTR MACRO BUFFADDR
MOV AH,0AH
MOV DX,OFFSET BUFFADDR
INT 21H
ENDM
```

```
DISPSTR MACRO STRADDR
MOV AH,09H
MOV DX,OFFSET STRADDR
INT 21H
ENDM
```

```
DATASEG1 SEGMENT
BINBUFF DB 9,0
BINARY DB 9 DUP(0),'$'
HEX DB '00H','$'
```

```
STR1 DB 10,13,'First 8-digit binary number : $'
STR2 DB 10,13,'Equivalent hexadecimal number is: $'
```

```
DATASEG1 ENDS
CODESEG1 SEGMENT
ASSUME DS:DATASEG1,CS:CODESEG1
BEGIN: MOV AX,DATASEG1
MOV DS,AX
```

```
DISPSTR STR1
INPUTSTR BINBUFF
;CONVERT BINARY TO HEXADECIMAL
```

```
MOV SI,OFFSET BINARY
MOV CX,04
MOV DL,00H
BACK: MOV AL,[SI]
AND AL,01H
ROL DL,1
OR DL,AL
INC SI
LOOP BACK
ADD DL,30H
MOV HEX,DL
```

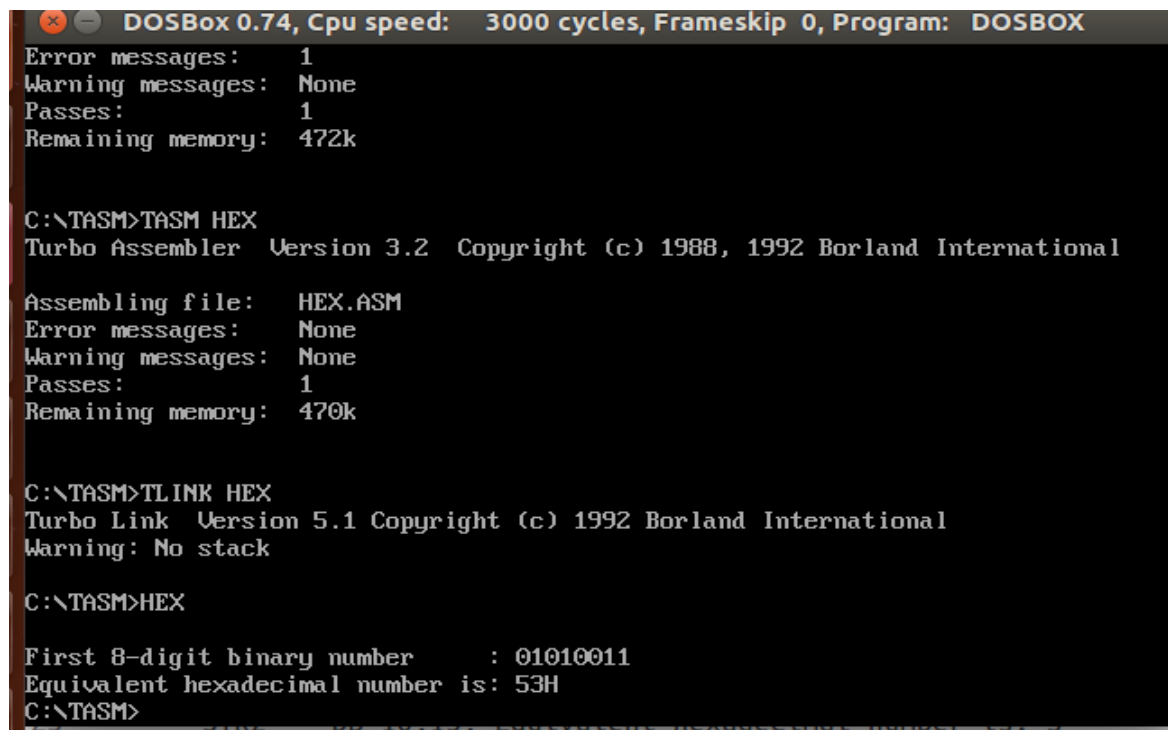
```
MOV CX,04
MOV DL,00H
BACK1: MOV AL,[SI]
AND AL,01H
```

```
ROL DL,1
OR DL,AL
INC SI
LOOP BACK1
ADD DL,30H
MOV HEX+1,DL
```

```
DISPSTR STR2
DISPSTR HEX
```

```
MOV AX,4C00H
INT 21H
```

```
CODESEG1 ENDS
END BEGIN
```



DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX

Error messages: 1
Warning messages: None
Passes: 1
Remaining memory: 472k

C:\TASM>TASM HEX
Turbo Assembler Version 3.2 Copyright (c) 1988, 1992 Borland International

Assembling file: HEX.ASM
Error messages: None
Warning messages: None
Passes: 1
Remaining memory: 470k

C:\TASM>TLINK HEX
Turbo Link Version 5.1 Copyright (c) 1992 Borland International
Warning: No stack

C:\TASM>HEX

First 8-digit binary number : 01010011
Equivalent hexadecimal number is: 53H
C:\TASM>