



Atma Ram Sanatan Dharma College
University of Delhi



MICROPROCESSOR

Practical File for Paper Code 32347504

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Q. Write a program to convert binary to ASCII.

CODE:

```
.model small
.data
str1 db 10,13, "Enter the Binary Number : $"
str2 db 10,13, "ASCII Equivalent : $"

.code
.startup
lea dx,str1
call prints
call getVal
lea dx,str2
call prints
call printd
.exit

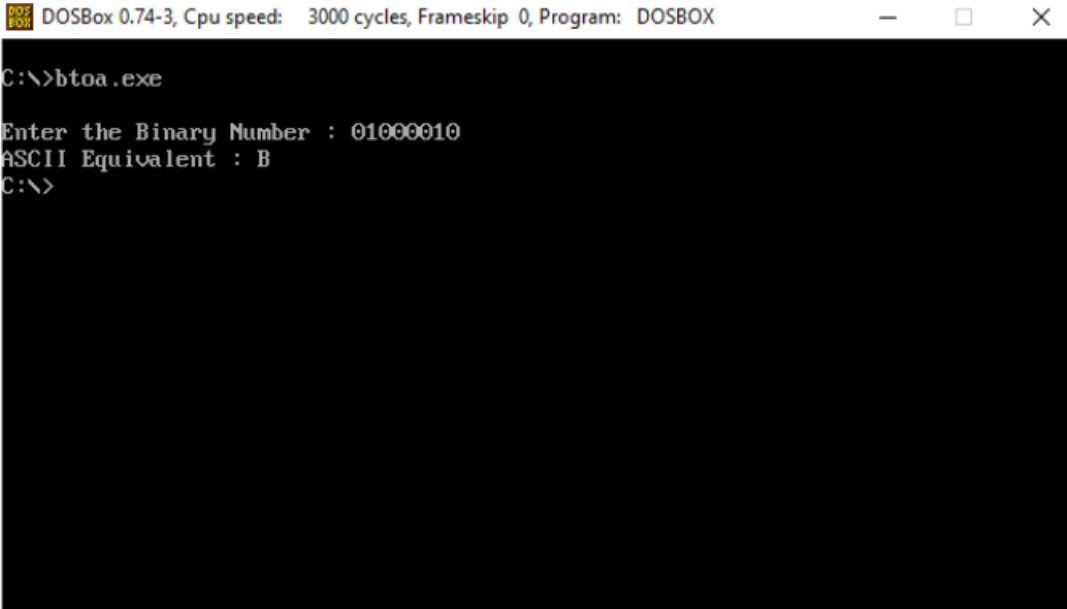
prints proc near
    mov ah,9
    int 21h
    ret
prints endp

getVal proc near
    mov cx,8
    mov bl,0
ab:
    mov ah,1
    int 21h
    sub al,30h
    shl bl,1
    add bl,al
    loop ab
    ret
getVal endp
```

```
printd proc near
    mov dl,bl
    mov ah,2
    int 21h
    ret
printd endp

end
```

OUTPUT:



```
DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX
C:\>btoa.exe
Enter the Binary Number : 01000010
ASCII Equivalent : B
C:\>
```

