

ATHARVA YADAV

ROLL NO: 127

BATCH: S23

MPL ASSGINMENT NO.6

AIM: BCD to unpacked BCD

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DATA_SEG SEGMENT
PACKED_BCD DB 89H
HIGH_DIGIT DB ? LOW_DIGIT
DB ?
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DATA SEG ENDS

CODE_SEG SEGMENT

ASSUME CS:CODE_SEG, DS:DATA_SEG

START:

MOV AX, DATA_SEG ;INITIALIZE THE DATA SEG MOV DS,AX

MOV AL, PACKED_BCD ;READ THE VALUE OF PACKED_BCD TRANSFERED AL AND AL, 0F0H ;AND OPERATION WITH AL (MASK THE LOWER DIGIT) MOV CL, 4

ROR AL , CL ;ROTATE BITS OF AL TO RIGHT BY 4 MOV HIGH DIGIT , AL ;CONTENTS OF AL

(HIGH DIGITS) TRANFERED TO HIGH DIGIT

MOV AL, PACKED BCD

AND AL, 0FH ;AND OPERATION WITH AL (MASK THE HIGHER DIGIT) MOV LOW_DIGIT, AL ;CONTENTS OF AL (LOW DIGITS) TRANFERED TO LOW DIGIT

MOV AH, 4CH; EXIT TO DOS
INT 21H

CODE_SEG ENDS

END START

