INDEX TABLE READ

WITH LENGTH AS VARIABLE

MOV DPTR,#D2015H ;LENGTH OF THE WORD

MOVX A,@DPTR

RLC A

MOV R2,A

MOV DPTR,#2009H ;SOURCE OF THE TABLE

MOV A,DPL

CLR C

ADD A,R2

MOV DPL,A

MOV A,DPH

ADDC A,#0

MOV DPH,A

MOVX A,@DPTR

MOV R3,A ;R3 CONTAINS MSD

INC DPTR

MOVX A,@DPTR

MOV R2,A ;R2 CONTAINS LSD

MOV DPTR,#2010H ;2010H IS THE RESULT WORD

MOV A,R3

MOVX @DPTR,A

INC DPTR

MOV A,R2

MOVX @DPTR,A

WITH LENGTH AS CONSTANT

MOV A,#03 ;LENGTH CANNOT BE MORE THAN 255

RLC A

MOV R2,A

MOV DPTR,#2009H ;SOURCE OF THE TABLE

MOV A,DPL

CLR C

ADD A,R2

MOV DPL,A

MOV A,DPH

ADDC A,#0

MOV DPH,A

MOVX A,@DPTR

MOV R3,A

INC DPTR

MOV R2,A

MOV DPTR,#2010H ;2010H IS THE RESULT WORD

MOV A,R2

MOVX @DPTR,A

INC DPTR

MOV A,R3

MOVX @DPTR,A