**Practical 1**

execute this code

.model small

.code

MOV AX, 0100H

MOV BX, 0F200H

end

**Practical 2**

WAP to perform 8 bit addition using 16 bit instruction mode.

MOV AL,10H

MOV BL,20H

ADD AL,BL

END

**Practical 3**

WAP to perform 16 bit addition using 16 bit instruction mode.

MOV AH,10H

MOV BH,20H

ADD AH,BH

END

**Practical 4**

WAP to perform 32 bit addition using 16 bit instruction mode

MOV AX,1111H

MOV BX,F111H

MOV CX,1111H

MOV DX,1111H

ADD AX,BX

ADC CX,DX

**Practical 5**

WAP to perform 8 bit subtraction using 16 bit instruction mode.

**Practical 6**

WAP to perform 16 bit subtraction using 16 bit instruction mode

**Practical 7**

WAP to perform 32 bit subtraction using 16 bit instruction mode

**Practical 8**

WAP to swap the 1st and 4th element of an array containing 5 word sized elements

**Practical 9**

Write a program to perform 8 bit BCD addition

**Practical 10**

Write a program to perform 16 bit BCD addition

**Practical 11**

Write a program to perform 16 bit BCD Subtraction

**Practical 12**

Write a program to perform 8 bit BCD subtraction

**Practical 13**

Write a program to perform 32 bit BCD addition

**Practical 14**

Write a program to perform 32 bit BCD Subtraction

**Practical 15**

Write a program to perform 8 bit multiplication

**Practical 16**

WAP to implement 16 bit multiplication

**Practical 17**

Write a program to perform 8 bit division

**Practical 18**

Write a program to perform 16 bit division

**Practical 19**

WAP to convert 16 bit binary content of AX into 4 digit ASCII character string

**Practical 20**

Wap to perform Binary to ASCII conversion

**Practical 21**

Wap to perform ASCII to binary conversion

**Practical 22**

Wap to implement linear search

<https://www.youtube.com/watch?v=lZI4zqFEobo>

ml add.asm

mount c c:\masm\bin

c:

cv add.exe