Q 8) **WAP to multiply two 16-bit numbers. Operands and result in Data Segment.**

```
Data  SEGMENT
      A  DW 1234H
      B DW 1845H
      Result DD ?
Data  ENDS

Code  SEGMENT
      ASSUME CS: Code, DS: Data
      MOV   AX, Data
      MOV   DS, AX

      MOV   AX, A
      MUL   B
      LEA   BX, Result
      MOV   [BX], AX
      MOV   [BX+2], DX

      INT3
Code ENDS
      END
```

Q 9) **WAP to find "highest" in a given series of 10 numbers beginning from location 20,000H. Store the result immediately after the series.**

```
Code  SEGMENT
      ASSUME CS: Code
      MOV   AX, 2000H
      MOV   DS, AX

      MOV   SI, 0000H
      MOV   CX, 000AH
      MOV   AL, 00H
Back: CMP   AL, [SI]
      JNC   Skip
      MOV   AL, [SI]
Skip: INC   SI
      LOOP  Back
      MOV   [SI], AL

      INT3
Code ENDS
      END
```

Dear Students,
You have solved many more programs in the classroom.
Please refer to your lecture note book as well.
For doubts Call #BharatSir @9820408217.

Q 10) **WAP to find the number of –ve numbers in a series of 10 numbers from 20,000H. Store the result immediately after the series.**

```
Code  SEGMENT
      ASSUME CS: Code
      MOV   AX, 2000H
      MOV   DS, AX
      MOV   SI, 0000H
      MOV   CX, 000AH
      MOV   AH, 00H
Back: MOV   AL, [SI]
      RCL   AL, 01H
      JNC   Skip
      INC   AH
Skip: INC   SI
      LOOP  Back
      MOV   [SI], AH
      INT3
Code ENDS
      END
```

☺ **For doubts contact Bharat Sir on 98204 08217**

Q 11) **WAP to SORT a series of 10 numbers from 20,000H in ascending order.**

```
Code  SEGMENT
      ASSUME CS: Code
      MOV   AX, 2000H
      MOV   DS, AX
      MOV   CH, 09H
Bck2: MOV   SI, 0000H
      MOV   CL, 09H
Bck1: MOV   AX, [SI]
      CMP   AH, AL
      JNC   Skip
      XCHG  AL, AH
      MOV   [SI], AX
Skip: INC   SI
      DEC   CL
      JNZ   Bck1
      DEC   CH
      JNZ   Bck2
      INT3
Code ENDS
      END
```