```
.MODEL SMALL
.STACK 100H
.DATA
  STRING1 DB 'TAKE TWO INPUTS $'
  STRING2 DB  ' AND $'

  STRING3 DB 10,13, '1.ADD$'
  STRING4 DB 10,13, '2.SUB$'
  STRING5 DB 10,13, '3.MUL$'
  STRING6 DB 10,13, '4.DIV $'
  STRING7 DB 10,13,'RESULT $'
  STR DB '-$'
  STRING8 DB 10,13, 'Q $'
  STRING9 DB 10,13, 'R $'
.CODE
MAIN PROC
    MOV AX,@DATA
    MOV DS,AX

    MOV AH,09
    LEA DX,STRING1
    INT 21H

    MOV AH,1
    INT 21H
    MOV BL,AL

    MOV AH,09
    LEA DX,STRING2
    INT 21H

    MOV AH,1
    INT 21H
    MOV BH,AL

    MOV AH,09
    LEA DX,STRING3
    INT 21H

    LEA DX,STRING4
    INT 21H

    LEA DX,STRING5
    INT 21H
```

```
LEA DX,STRING6
INT 21H

MOV AH,01
INT 21H


CMP AL,31H
JE A1

CMP AL,32H
JE A2

CMP AL,33H
JE A3

CMP AL,34H
JE A4

A1:
CALL ROKON
JMP EXIT

A2:
CALL SHANTO
JMP EXIT

A3:
CALL EFAZ
JMP EXIT

A4:
CALL PRANTO
JMP EXIT

EXIT:
MOV AX,4CH
INT 21H

MAIN ENDP


ROKON PROC
```

```
    MOV AH,09
    LEA DX,STRING7
    INT 21H



    SUB BL,30H
    SUB BH,30H
    ADD BL,BH
    MOV AL,BL
    MOV AH,0H
    MOV BL,0AH
    DIV BL


   MOV BH,AH
   MOV BL,AL
   ADD BH,30H
   ADD BL,30H

   MOV AH,2
   MOV DL,BL
   INT 21H
   MOV AH,2
   MOV DL,BH
   INT 21H

   RET
   ROKON ENDP

SHANTO PROC


    MOV AH,09
    LEA DX,STRING7
    INT 21H



    SUB BL,30H
    SUB BH,30H

    CMP BL,BH
    JAE TOP
```

```
    SUB BH,BL
    MOV CL,BH

    ADD CL,30H

    MOV AH,09
    LEA DX,STR
    INT 21H

    MOV AH,2
    MOV DL,CL
    INT 21H

    JMP FINISH

    TOP:
     SUB BL,BH
     MOV CL,BL

     ADD CL,30H

     MOV AH,2
     MOV DL,CL
     INT 21H

     FINISH:
     RET

     SHANTO ENDP

EFAZ PROC

    MOV AH,09
    LEA DX,STRING7
    INT 21H

    SUB BL,30H
    SUB BH,30H

    MOV AL,BL
    MOV BL,BH
    MUL BL
```

```
 MOV AH,0H
 MOV BL,0AH
 DIV BL

MOV BH,AH
MOV BL,AL
ADD BH,30H
ADD BL,30H

MOV AH,2
MOV DL,BL
INT 21H
MOV DL,BH
INT 21H
RET

EFAZ ENDP

PRANTO PROC

 MOV AH,09
 LEA DX,STRING7
 INT 21H

 SUB BL,30H
 SUB BH,30H
 MOV AL,BL
 MOV AH,0H
 MOV AL,BL
 MOV BL,BH
 DIV BL

MOV BH,AH
MOV BL,AL
ADD BH,30H
ADD BL,30H

 MOV AH,09
 LEA DX,STRING8
 INT 21H

MOV AH,02
MOV DL,BL
INT 21H
```

```
    MOV AH,09
    LEA DX,STRING9
    INT 21H
      MOV AH,02
    MOV DL,BH
    INT 21H
     RET


   PRANTO ENDP
END MAIN
```

LAST LAB

```
.MODEL SMALL
.STACK 100H
.DATA
.CODE
MAIN PROC

    MOV CX,5
    MOV SI,0010H
    ROKON:
    MOV AH,1
    INT 21H
    MOV [SI],AL
    INC SI
    LOOP ROKON

    MOV CX,5
    MOV SI,0010H

    MIM:
    MOV AH,2
    MOV DL,0AH
    INT 21H

    MOV AH,2
    MOV DL,0DH
    INT 21H

    MOV AH,2
    MOV DL,[SI]
```

```
   INC SI
   INT 21H
   LOOP MIM
   MAIN ENDP
END MAIN
```

UPPER LOWER:

```
.MODEL SMALL
.STACK 100
.DATA

.CODE
MAIN PROC


   MOV SI,0100H
   MOV CL,5
   LABEL:
      MOV AH,1
      INT 21H

      CMP AL,41H
      JAE  LOWER
      JMP FINISH

      LOWER:
        CMP AL,5AH
        JBE LOW1

        CMP AL,61H
        JAE  UPPER

        JMP FINISH

        LOW1:
          ADD AL,20H
          JMP FINISH

        UPPER:

           CMP AL,7AH
           JBE  UP1

           JMP FINISH
```

```
        UP1:
          SUB AL,20H
      FINISH:

    MOV [SI],AL
    INC SI
  LOOP LABEL

  MOV SI,0100H
  MOV CL,5
  LABEL2:
    MOV AH,2
    MOV DL,0AH
    INT 21H

    MOV DL,0DH
    INT 21H


    MOV AH,2
    MOV DL,[SI]
    INT 21H

    INC SI
  LOOP LABEL2



  MAIN ENDP
END MAIN
```