

### **1. To read a character**

TITLE 1:A SINGLE CHARECTER INPUT

.MODEL SMALL

.STACK 100H

.DATA

.CODE

MAIN PROC

MOV AH,1

INT 21H

MOV AH,4CH

INT 21H

MAIN ENDP

END MAIN

### **2. TO DISPLAY A CHARACTER**

TITLE 2: DISPLAY A SINGLE CHARECTER

.MODEL SMALL

.STACK 100H

.DATA

.CODE

MAIN PROC

MOV AH,2

MOV DL,'S'

INT 21H

MOV AH,4CH

INT 21H

MAIN ENDP

END MAIN

### **3. To display a 2-line message**

TITLE 3: DISPLAY TWO LINE MESSAGE

```

.MODEL SMALL
.STACK 100H
.DATA
MSG1 DB WHO ARE YOU? '$'
MSG2 DB 0DH,0AH,'I AM AL NOMAN $'
.CODE

    MAIN PROC
    MOV AX,@DATA
    MOV DS,AX
    LEA DX,MSG1
    MOV AH,9
    INT 21H
    LEA DX,MSG2
    MOV AH,9
    INT 21H
    MOV AH,4CH
    INT 21H
    MAIN ENDP

    END MAIN

```

#### **4. TO DISPLAY FENI UNIVERSITY 30 TIMES**

TITLE : 'Display FENI UNIVESITY 30 TIMES'

```

.MODEL SMALL
.STACK 100H
.DATA
MSG DB 0DH,0AH,'FENI UNIVERSITY $'
.CODE

MAIN PROC

    MOV AX,@DATA
    MOV DS,AX

```

```
MOV CX,20 ;counter 30
LEA DX,MSG
MOV AH,9
TOP:
INT 21H
LOOP TOP
MOV AH,4CH
INT 21H
MAIN ENDP
END MAIN
```

## **5. TO DISPLAY A ROW OF 40 STAR**

TITLE 'Display \* 40 TIMES'

.MODEL SMALL

.STACK 100H

.DATA

.CODE

MAIN PROC

MOV CX,80

MOV AH,2

MOV DL,'\*'

TOP:

INT 21H

LOOP TOP

MOV AH,4CH

INT 21H

MAIN ENDP

END MAIN

## **6. TO DISPLAY A COLOUM OF 40 STARS**

TITLE: 'Display A COLOUM OF 40 STAR'

```

.MODEL SMALL
.STACK 100H
.DATA
MSG DB 0DH,0AH,' * $'
.CODE
MAIN PROC
    MOV AX,@DATA
    MOV DS,AX
    MOV CX,20 ;    counter 40
    LEA DX,MSG
    MOV AH,9
    TOP:
    INT 21H
    LOOP TOP
    MOV AH,4CH
    INT 21H
    MAIN ENDP
        END MAIN

```

## **7. TO ENTER AND DISPLAY CHAR UNTIL PRESS ENTER**

TITLE 'DISPLAY AND READ CHARACTER UNTIL ENTER PRESS'

```

.MODEL MEDIUM
.STACK 100H
.DATA
.CODE
MAIN PROC
    MOV AH,1
    AGAIN:
    INT 21H
    CMP AL,0DH

```

```
JNE AGAIN;
JMP EXIT;
EXIT:
MOV AH,4CH
INT 21H
MAIN ENDP
END MAIN
```

## **8. TO ENTER AND DISPLAY CHAR UNTIL PRESS SPACE**

TITLE ' TO ENTER AND DISPLAY CHAR UNTIL PRESS SPACE '

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

```
    MOV AH,1
AGAIN:
    INT 21H
    CMP AL,' '
    JNE AGAIN;
    JMP EXIT;
EXIT:
```

```
MOV AH,4CH
INT 21H
MAIN ENDP
END MAIN
```

## **9. TO DISPLAY IBM 256 CHARACTER**

TITLE 'Display IBM256 charecter'

```
.MODEL MEDIUM
.STACK 100H
```

```

.DATA
.CODE
MAIN PROC
    MOV CX,256
    MOV DL,0;      ASCILL code null
PRINT_LOOP:
    MOV AH,2
    INT 21H;  DISPLAY A CHARECTER
    INC DL;      INCREMENT ASCII CODE
    DEC CX
    JNZ PRINT_LOOP ;
    JCXZ EXIT;
EXIT:
    MOV AH,4CH
    INT 21H
MAIN ENDP
END MAIN

```

## **10.READ A CHAR AND DISPLAY IT AS UPPER CASE IF IT IS LOWER CASE**

```

TITLE 'CASE CONVERSION'
.MODEL SMALL
.STACK 100H
.DATA
MSG1 DB 'ENTER A LOWER CASE LETTER: $'
MSG2 DB 0DH,0AH,'IN UPPER CASE LETTER : '
CHAR DB ?, '$'
.CODE
MAIN PROC
    MOV AX,@DATA

```

```
MOV DS,AX
LEA DX,MSG1
MOV AH,9
INT 21H
MOV AH,1
INT 21H
SUB AL,20H ; CONVERT TO UPPERCASE
MOV CHAR,AL
LEA DX,MSG2
MOV AH,9
INT 21H
MOV AH,4CH
INT 21H
MAIN ENDP
END MAIN
```