Welcome to the Class

Department of Computing and Information System

Basic Assembly Coding

Basic Assembly for String Output

```
.MODEL SMALL
.STACK 100H

.DATA
   SELIM1   DB   'Assala-mu Alaikum$'                    ;data byte

.CODE
  MAIN PROC
    MOV AX, @DATA                          ; initialize DS
    MOV DS, AX

    LEA DX, SELIM1                        ; load & display the STRING_1
    MOV AH, 9
    INT 21H

    MOV AH, 4CH                           ; return control to DOS
    INT 21H
  MAIN ENDP
END MAIN
```

Basic Assembly for String Output

```
.MODEL SMALL
.STACK 100H

.DATA
   SELIM1   DB   'Assala-mu Alaikum$'
   SELIM2   DB   'Sir$'

.CODE
  MAIN PROC
    MOV AX, @DATA
    MOV DS, AX

    LEA DX, SELIM1
    MOV AH, 9
    INT 21H

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

    MOV DL, 0AH
    INT 21H

    LEA DX, SELIM2
    MOV AH, 9
    INT 21H

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

```
.MODEL SMALL
.STACK 100H

.DATA
   SELIM1   DB   'Assala-mu Alaikum$'
   SELIM2   DB   'Sir$'                    ;data byte

.CODE
  MAIN PROC
    MOV AX, @DATA                         ; initialize DS
    MOV DS, AX

    LEA DX, SELIM1                       ; load & display the STRING_1
    MOV AH, 9
    INT 21H

    MOV AH, 2                            ; carriage return new line
    MOV DL, 0DH
    INT 21H

    MOV DL, 0AH                          ; line feed and next line print
    INT 21H

    LEA DX, SELIM2                       ; load & display the STRING_2
    MOV AH, 9                           ;load effective address
    INT 21H

    MOV AH, 4CH                          ; return control to DOS
    INT 21H
  MAIN ENDP
END MAIN
```

Thanks to All