UNIVERSITY OF KARACHI



ASSEMBLY LANGUAGE PROGRAMMING

BSCS-403

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UNIVERSITY OF KARACHI

1. PROGRAM TO PRINT A SINGLE CHARACTER ON SCREEN:

```
DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: EDIT
  File Edit Search View Options Help
                                 C:\CHAR.ASM
DOSSEG
 .MODEL SMALL :MODEL DIRECTIVE
 .STACK 100H
             STACK SEGMENT DIRECTIVE
              :INSIDE THIS VARIABLES ARE DECLARED
.DATA
.CODE
              :EXECUTABLE INSTRUCTIONS ARE WRITTEN
MAIN PROC
MOV DL,'U'
MOV AH.2
INT 21H
MOV AH,4CH :TO EXIT THE REGISTER
INT 21H
MAIN ENDP
END MAIN :TO END MAIN PROGRAM
C:\>EDIT CHAR.ASM
C:N>MASM CHAR.ASM;
Microsoft (R) Macro Assembler Version 5.00
Copyright (C) Microsoft Corp 1981–1985, 1987. All rights reserved.
 51710 + 464834 Bytes symbol space free
     0 Warning Errors
     O Severe Errors
C:>>LINK CHAR.OBJ;
Microsoft (R) Overlay Linker Version 3.60
Copyright (C) Microsoft Corp 1983-1987. All rights reserved.
C:N>CHAR.EXE
```

2. PROGRAM TO PRINT THE NAME WITH CHARACTER:

```
🗱 DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: EDIT
 File Edit Search View Options Help
                                 C:\AMAS.ASM
DOSSEG
.MODEL SMALL
.STACK 100H
.DATA
.CODE
MAIN PROC
MOV DL,'A'
MOV AH,2
INT 21H
MOV DL,'M'
MOV AH,2
INT 21H
MOV DL.'A'
MOV AH.2
INT 21H
MOV DL,'S'
MOV AH,2
INT 21H
MOV AH,4CH
INT 21H
MAIN ENDP
END MAIN
F1=Help
                                                       Line:1 Col:1
C:\>EDIT AMAS.ASM
C:N>MASM AMAS.ASM;
Microsoft (R) Macro Assembler Version 5.00
Copyright (C) Microsoft Corp 1981-1985, 1987. All rights reserved.
 51710 + 464834 Bytes symbol space free
      0 Warning Errors
      O Severe Errors
C:\>LINK AMAS.OBJ;
Microsoft (R) Overlay Linker Version 3.60
Copyright (C) Microsoft Corp 1983-1987. All rights reserved.
C:\>AMAS.EXE
AMAS
C:\>_
```

3. PROGRAM TO TAKE INPUT A CHARACTER AND PRINT ON THE SCREEN:

```
DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: EDIT
  File Edit Search View Options Help
                                   C:\INP.ASM
DOSSEG
.MODEL SMALL :MODEL DIRECTIVE
 .STACK 100H
               STACK DIRECTIVE
                : INSIDE THIS UARIABLES ARE DECLARED
 .DATA
 .CODE
                 :EXECUTABLE INSTRUCTION ARE WRITTEN
MAIN PROC
MOV AH,1
                :SERVICE ROUTINE 1 FOR GETTING INPUT FROM KEYBOARD
INT 21H
MOV DL,AL
MOV AH,2
INT 21H
MOV AH,4CH
               TO EXIT THE REGISTER
INT 21H
MAIN ENDP
               :TO END THE PROGRAM
END MAIN
C:\>EDIT INP.ASM
C:\>MASM_INP.ASM;
Microsoft (R) Macro Assembler Version 5.00
Copyright (C) Microsoft Corp 1981-1985, 1987. All rights reserved.
 51720 + 464824 Bytes symbol space free
      0 Warning Errors
      O Severe Errors
C:\>LINK INP.OBJ;
Microsoft (R) Overlay Linker Version 3.60
Copyright (C) Microsoft Corp 1983-1987. All rights reserved.
C:\>INP.EXE
C:\>
```