

UNIVERSITY OF KARACHI



ASSEMBLY LANGUAGE PROGRAMMING

BSCS-403

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Semester No: 3rd

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DEPARTMENT OF COMPUTER SCIENCE

UNIVERSITY OF KARACHI

PROGRAM TO PRINT AN ARRAY USING LOOP:

```
File Edit Search View Options Help
C:\LT71.ASM
DOSSEG
.MODEL SMALL ;MODEL DIRECTIVE
.STACK 100H ;STACK DIRECTIVE
.DATA ;VARIABLE DECLARATION
ARRAY DB 'A','B','C'
.CODE ;CODE SPACE
MAIN PROC

MOV AX,@DATA
MOV DS,AX
MOV SI,OFFSET ARRAY
MOV CX,3

L1:
MOV DX,[SI]
MOV AH,2
INT 21H
INC SI
LOOP L1

MOV AH,4CH ;TO EXIT THE REGISTER
INT 21H
F1=Help
Line:1 Col:1
C:\>EDIT LT71.ASM

C:\>MASM LT71.ASM:
Microsoft (R) Macro Assembler Version 5.00
Copyright (C) Microsoft Corp 1981-1985, 1987. All rights reserved.

51632 + 464912 Bytes symbol space free

0 Warning Errors
0 Severe Errors

C:\>LINK LT71.OBJ:

Microsoft (R) Overlay Linker Version 3.60
Copyright (C) Microsoft Corp 1983-1987. All rights reserved.

C:\>LT71.EXE
ABC
C:\>_
```

PROGRAM TO INPUT STRING AND PRINT IT:

```
File Edit Search View Options Help
C:\LT72.ASM
DOSSEG
.MODEL SMALL ;MODEL DIRECTIVE
.STACK 100H ;STACK DIRECTIVE
.DATA ;VARIABLE DECLARATION
VAR1 DB 100 DUP('$')
.CODE ;CODE SPACE
MAIN PROC
MOV AX,@DATA
MOV DS,AX
MOV SI,OFFSET VAR1
L1:
MOV AH,1
INT 21H
CMP AL,13
JE PROGRAMMED

MOV [SI],AL
INC SI
JMP L1

PROGRAMMED:
MOV DX,OFFSET VAR1

F1=Help Line:1 Col:1
C:\>EDIT LT72.ASM
C:\>MASM LT72.ASM:
Microsoft (R) Macro Assembler Version 5.00
Copyright (C) Microsoft Corp 1981-1985, 1987. All rights reserved.

51668 + 464876 Bytes symbol space free

0 Warning Errors
0 Severe Errors
C:\>LINK LT72.OBJ:
Microsoft (R) Overlay Linker Version 3.60
Copyright (C) Microsoft Corp 1983-1987. All rights reserved.

C:\>LT72.EXE
RAMADAN KAREEM
RAMADAN KAREEM
C:\>
```