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**BANGLADESH UNIVERSITY OF
BUSINESS AND TECHNOLOGY**

Lab assignment-1

Course Code: CSE 316

Course Title: Microprocessor and Microcontroller Lab

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Problem:

Write an assembly program to take two integer input and print the greater digit.
(only single digit input).

Objective:

◆ To write code in assembly language and know the greatest between two numbers.

Source code:

```
.MODEL SMALL
```

```
.STACK 100H
```

```
.DATA
```

```
a db 'Enter the First digit: $'
```

```
b db 10,13,'Enter the second Digit: $'
```

```
c db 10,13,'The greater digit is: $'
```

```
.CODE
```

```
MAIN PROC
```

```
    mov ax,@data
```

```
    mov ds,ax
```

```
    mov ah,9
```

```
    lea dx,a
```

```
    int 21h
```

```
    mov ah,1
```

```
    int 21h
```

```
    mov bl,al
```


```
    mov ah,9
```

```
    lea dx,b
```

```
    int 21h
```

```
    mov ah,1
    int 21h
    mov bh,al
    mov ah,9
    lea dx,c
    int 21h
    cmp bl,bh
    jg One
    jmp Two
One:
    mov ah,2
    mov dl,bl
    int 21h
    jmp Exit
Two:
    mov ah,2
    mov dl,bh
    int 21h
Exit:
    main endp
end main
```

Output:

 emulator screen (80x25 chars)

```
Enter the First digit: 9
Enter the second Digit: 1
The greater digit is: 9
```