

1.Print a Character:

.model

.data

.code

main proc

mov dl,'a'

mov ah,2

int 21h

Exit:

mov ah,4ch

int 21h

main endp

end main

2. Print a Character by taking User Input:

.model small

.data

.code

main proc

mov ah,1

int 21h

mov dl,al

mov ah,2

int 21h

Exit:

mov ah,4ch

int 21h

main endp

end main

3.Addition of 2 number by taking user Input:

.model small

.code

main proc

mov ah,1

int 21h

mov bl,al

mov ah,1

int 21h

mov cl,al

add bl,cl

mov dl,bl

sub dl,48

mov ah,2

int 21h

Exit:

mov ah,4ch

int 21h

main endp

end main

4. Subtraction of 2 number by taking user Input:

.model small

.code

main proc

mov ah,1

int 21h

mov bl,al

mov ah,1

int 21h

mov cl,al

```
sub bl,cl
mov dl,bl
add dl,48
```

```
mov ah,2
int 21h
```

Exit:

```
mov ah,4ch
int 21h
main endp
```

```
end main
```

5.Show the output in a new line after taking user Input:

```
.model small
```

```
.data
```

```
.code
```

```
main proc
```

```
mov ah,1
int 21h
```

```
mov dl,10
```

```
mov ah,2
```

```
int 21h
```

```
mov dl,13
```

```
mov ah,2
```

```
int 21h
```

```
mov dl,al
```

```
mov ah,2
```

```
int 21h
```

Exit:

```
mov ah,4ch
```

```
    int 21h
    main endp
end main
```

6.Lower Case to Upper Case with new line by taking user input:

```
.model small
.data
.code
```

```
main proc
    mov ah,1
    int 21h
    mov bl,al

    mov cl,13
    mov dl,cl

    mov ah,2
    int 21h

    mov cl,10
    mov dl,cl

    mov ah,2
    int 21h

    mov dl,bl
    sub dl,32

    mov ah,2
    int 21h
Exit:
    mov ah,4ch
    int 21h
    main endp
end main
```

7. Upper Case to Lower Case with new line by taking user input:

.model small

.data

.code

main proc

mov ah,1

int 21h

mov bl,al

mov cl,13

mov dl,cl

mov ah,2

int 21h

mov cl,10

mov dl,cl

mov ah,2

int 21h

mov dl,bl

add dl,32

mov ah,2

int 21h

Exit:

mov ah,4ch

int 21h

main endp

end main

8.Variable & String

-Take 2 user input by prompting message & do addition.

Example> I/P: Enter first number:

Enter second number:

O/P: Result:

```
.model
```

```
.data
```

```
var1 db?
```

```
var2 db ?
```

```
smg1 db 'Enter first number: $'
```

```
smg2 db 'Enter second number: $'
```

```
smg3 db 'Result: $'
```

```
.code
```

```
main proc
```

```
    mov ax,@data
```

```
    mov ds,ax
```

```
leax dx,smg1
```

```
    mov ah,9
```

```
    int 21h
```

```
mov ah,1
```

```
int 21h
```

```
mov var1,al
```

```
mov dl,10
```

```
mov ah,2
```

```
int 21h
```

```
mov dl,13
```

```
mov ah,2
```

```
int 21h
```

```
lea dx,msg2
```

```
mov ah,9
```

```
int 21h
```

```
mov ah,1
```

```
int 21h
```

```
mov var2,al
```

```
mov dl,10
```

```
mov ah,2
```

```
int 21h
```

```
mov dl,13
```

```
mov ah,2
```

```
int 21h
```

```
lea dx,msg3
```

```
mov ah,9
```

```
int 21h
```

```
mov dl,var1
```

```
add dl,var2
```

```
sub dl,48
```

```
mov ah,2
```

```
int 21h
```

```
Exit:
```

```
mov ah,4ch
```

```
int 21h
```

```
main endp
```

```
end main
```

9.Hexa-Decimal(A-F) to Decimal Conversion:

.model small

.stack 100h

.data

.code

main proc

mov ah,1

int 21h

mov cl,al

mov dl,1

add dl,48

mov ah,2

int 21h

sub cl,17

mov dl,cl

mov ah,2

int 21h

Exit:

mov ah,4ch

int 21h

main endp

end main

10. Loop:

```
.model small
```

```
.code
```

```
main proc
```

```
    mov cl,10
```

```
    L1:
```

```
    mov dl,'a'
```

```
    mov ah,2
```

```
    int 21h
```

```
    loop L1
```

```
Exit:
```

```
    mov ah,4ch
```

```
    int 21h
```

```
    main endp
```

```
end main
```

11.Find the Largest number between 2 or 3 Digits:

```
.model small
```

```
.code
```

```
main proc
```

```
    mov ah, 1
```

```
    int 21h
```

```
    mov bl,al
```

```
    mov ah, 1
```

```
    int 21h
```

```
    mov bh,al
```

```
    mov ah, 1
```

```
    int 21h
```

```
    mov cl,al
```

```
    cmp bl,bh
```

jng L1

cmp bl,cl

jng L2

mov dl,bl

mov ah,2

int 21h

jmp exit

L1:

cmp bh,cl

jng L3

mov dl,bh

mov ah,2

int 21h

jmp exit

L2:

mov dl,cl

mov ah,2

int 21h

jmp exit

L3:

mov dl,cl

mov ah,2

int 21h

jmp exit

Exit:

mov ah,4ch

int 21h

main endp

end main