Sample Program #1

Show Message Subtract Two Numbers .model small .model small .stack 100h .stack 100h .data .data .code msg DB 'hello\$' main proc .code mov ax, @data main proc mov ds, ax mov ax, @data mov ds, ax mov dx, 5 LEA dx, msg mov ax, 3 mov ah, 9h sub dx, ax int 21h add dx, 48 mov ah, 4ch mov ah, 2 int 21h int 21h main endp end main mov ah, 4ch int 21h **Add Two Numbers** main endp end main .model small .stack 100h **Multiplication Two Numbers** .data .model small .stack 100h .code .data main proc .code mov ax, @data main proc mov ds, ax mov ax, @data mov ds, ax mov dx, 4 mov ax, 5 mov dx, 2 add dx, ax mov ax, 3 add dx, 48 mul dx mov dx, ax mov ah, 2 add dx, 48 int 21h mov ah, 2 mov ah, 4ch int 21h int 21h mov ah, 4ch main endp int 21h end main main endp end main

Sample Program #1

Loop Check Program

```
main endp
                                        end main
.model small
.stack 100h
.data
.code
main proc
     mov ax, @data
     mov ds, ax
     mov cx, 4
ltest:
     mov dx, cx
    add dx, 48
    mov ah, 2
    int 21h
     loop ltest
    mov ah, 4ch
     int 21h
main endp
end main
```

Increment/Decrement Program

```
.model small
.stack 100h
.data
.code
main proc
    mov ax, @data
    mov ds, ax

mov dx, 4
    inc/dec dx
    add dx, 48

mov ah, 2
    int 21h

mov ah, 4ch
    int 21h
```