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## EMU

1 message

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```
.model small
.stack 100h
.data
msg1 db "Enter First Decimal Number : $"
msg2 db ,10,13,"Enter Second Decimal : $"
msg3 db ,10,13,"SUM of Entered Numbers = $"
num1 db ?
num2 db ?
ans db ?,"$"
.code
main proc
```

```
mov ax,@data      ;initiaize ds
mov ds,ax
```

```
mov dx,offset msg1 ;load and display msg1
mov ah,09
int 21h
```

```
mov ah,1h          ;read first initial
int 21h
sub al,30h
```

```
mov num1,al
```

```
mov dx,offset msg2 ;load and display msg2
mov ah,9
int 21h
```

```
          ;read second initial
mov ah,1h
int 21h
sub al,30h
```

```
mov num2,al
```

```
mov dx,offset msg3
mov ah,9          ;load and display msg3
int 21h
```

```
mov al,num1        ;add num1 and num2
add al,num2
add al,30h          ;moves value into ans
mov ans,al
```

```
mov dx,offset ans   ;load and display msg3
mov ah,9
int 21h
```

```
          ;returns control to dos
mov ah, 4ch
```

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