

.model small

.data

```
var1 db 13,10,"Please input 1st Number: $"
var2 db 13,10,"Please input 2st Number: $"
var3 db 13,10,"The result sum of $"
var4 db " and $"
var5 db " is $"
var6 db "exit"
num1 db 0
num2 db 0
result db 0
```

.code

```
main proc
    calculator:
        mov ax,@data
        mov ds,ax
    input1:
        mov dl, offset var1
        mov ah,9h
        int 21h
        mov ah,1h
        int 21h
        cmp al,113
        jz exit
        cmp al,47
        Jc input1
        cmp al,58
        jnc input1
        sub al,48
        mov num1,al
    input2:
        mov dl,offset var2
        mov ah,9h
        int 21h
        mov ah,1h
        int 21h
        cmp al,113
        jz exit
        cmp al,47
        Jc input2
        cmp al,58
        jnc input2
        sub al,48
        mov num2,al
        mov al,num1
        add al,num2
        mov result,al
        mov dl,offset var3
        mov ah,9h
        int 21h
        mov dl,num1
        add dl,48
        mov ah,2h
        int 21h
        mov dl,offset var4
        mov ah,9h
        int 21h
```

```
mov dl,num2
add dl,48
mov ah,2h
int 21h
mov dl,offset var5
mov ah,9h
int 21h
add result,48
mov dl,result
mov ah,2h
int 21h
jmp calculator
exit:
    hlt
```

```
main endp
end main
```

```
open  examples  save  compile  emulate  calculator  convertor  options  help
mo  da  500  emulator screen (80x20 chars)
co
Please input 1st Number: @
Please input 1st Number: !
Please input 1st Number: 2
Please input 2st Number: @
Please input 2st Number: !
Please input 2st Number: 4
The result sum of 2 and 4 is 6
Please input 1st Number:
```