

```
init macro
    MOV ax,@data
    MOV ds,ax
endm
```

```
prints macro
    MOV ah,09h
    INT 21h
endm
```

```
acceptch macro
    MOV ah,01h
    INT 21h
endm
```

```
printch macro
    MOV ah,02h
    INT 21h
endm
```

```
terminate macro
    MOV ah,04ch
    INT 21h
endm
```

```
.model small
.stack 100h
.data
```

```
    str1    db 25 DUP ('$')
    str2    db 25 DUP ('$')
    len1    db 0
    len2    db 0
    menu    db '1. Compare',13,10,'2. Concatenate',13,10,'3. Substring',13,10,'4.
Exit',13,10,'Your Choice : $'
    msg1    db 'Enter String: $'
    msg6    db 13,10,13,10,'Incorrect Choice$'
    newline db 13,10,13,10,'$'
    choice  db ?
```

```
.code
```

```
    MAIN PROC
```

```
        init
        LEA dx,msg1
        prints
        LEA si,str1
        CALL ACCEPT
        MOV len1,cl
```

```
        LEA dx,msg1
        prints
        LEA si,str2
        CALL ACCEPT
        MOV len2,cl
```

```
        extrn SUBSTRING:FAR
        extrn STRCMP:FAR
        extrn STRCAT:FAR
```

```

loop1:LEA dx,menu
prints

acceptch
MOV choice,al
SUB choice,30h

CALL SWITCH
JMP loop1

ret
ENDP

SWITCH PROC

case1:CMP choice,1
JNE case2

LEA si,str1
LEA di,str2
MOV al,len1
MOV bl,len2
CALL STRCMP
LEA dx,newline
prints
ret

case2:CMP choice,2
JNE case3

LEA si,str1
LEA di,str2
MOV dx,di

MOV cl,len1
MOV ch,len2

CALL STRCAT
LEA dx,newline
prints
ret

case3:CMP choice,3
JNE case4

LEA si,str1
LEA di,str2

CALL SUBSTRING
LEA dx,newline
prints
ret

case4:CMP choice,4
JNE default
terminate

default:LEA dx,msg6
prints

```

```
LEA dx,newline
prints
ret
```

```
ENDP
```

```
ACCEPT PROC
```

```
MOV dl,[si]
MOV cl,0
label1: acceptch
MOV [si],al
INC cl
INC si
CMP al,13
JNE label1
```

```
ret
ENDP
```

```
end
```