Experiment No 5

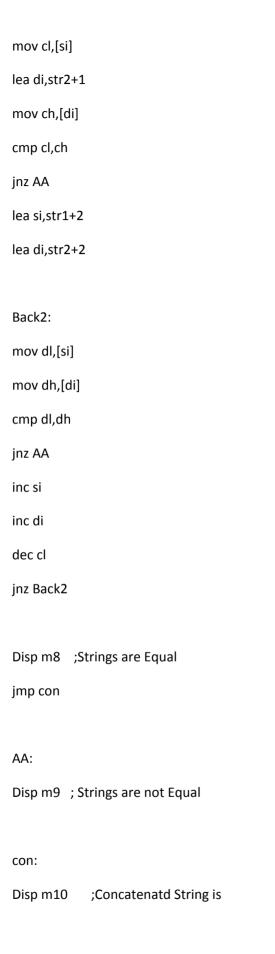
Student should be able to apply string operations (i) Accept, (ii) Display, (iii) Concatenate and (iv) Compare in ALP.

```
.model small
.stack
.data
m1 db 10,13,"Enter 1st string:$"
m2 db 10,13,"Length of 1st string:$"
m3 db 10,13,"Display 1st string:$"
m4 db 10,13,"Enter 2nd string:$"
m5 db 10,13,"Length of 2nd string:$"
m6 db 10,13,"Display 2nd string:$"
m7 db 10,13,"Comparison: $ "
m8 db 10,13,"Strings are Equal$"
m9 db 10,13," Strings are not Equal$"
m10 db 10,13,"Concatenatd String is: $"
str1 db 80,?,80 DUP(?)
str2 db 80,?,80 DUP(?)
str3 db 80,?,80 DUP(?)
.code
Disp macro xx
  mov ah,09h
  lea dx,xx
  int 21h
```

```
endm
.startup
Disp m1 ;Enter 1st string
mov ah,0Ah ;Read a string from the keyboard into buffer addressed by DX
lea dx,str1
int 21h
Disp m2
            ;Length of 1st string
lea si,str1+1
mov dl,[si]
mov cl,dl
add dl,30h
mov ah,02h
int 21h
Disp m3
           ;Display 1st string
lea si,str1+2
Back:
mov dl,[si]
mov ah,02h
int 21h
inc si
dec cl
```

jnz Back

Disp m4 ;Enter 2nd string
mov ah,0Ah
lea dx,str2
int 21h
Disp m5 ;Length of 2nd string
lea si,str2+1
mov dl,[si]
mov cl,dl
add dl,30h
mov ah,02h
int 21h
Disp m6 ;Display 2nd string
Disp m6 ;Display 2nd string lea si,str2+2
lea si,str2+2
lea si,str2+2 Back1:
lea si,str2+2 Back1: mov dl,[si]
lea si,str2+2 Back1: mov dl,[si] mov ah,02h
lea si,str2+2 Back1: mov dl,[si] mov ah,02h
lea si,str2+2 Back1: mov dl,[si] mov ah,02h int 21h
lea si,str2+2 Back1: mov dl,[si] mov ah,02h int 21h inc si
lea si,str2+2 Back1: mov dl,[si] mov ah,02h int 21h inc si dec cl
lea si,str2+2 Back1: mov dl,[si] mov ah,02h int 21h inc si dec cl



lea si,str1+1
mov cl,[si]
mov bl,cl
lea di,str2+1
mov ch,[di]
mov bh,ch
add bl,bh
lea si,str1+2
lea di,str3+2
Back3:
mov dl,[si]
mov [di],dl
inc si
inc di
dec cl
jnz back3
lea si,str2+2
Back4:
mov dl,[si]
mov [di],dl
inc si
inc di
dec ch

jnz Back4
lea di,str3+2
Back5:
mov dl,[di]
mov ah,02h
int 21h
inc di
dec bl
jnz Back5
Exit:
.exit
end