**Solution 1:**

Trimmer:

.

.

.

si, 0 ; source string2

di,0 ; destination string1

lodsb ; al 🡨 ds:si ‘n’

; initializations

repne scasb

; index—

; save this index to copy next time, initialiazations for cmpsb

repe cmpsb

; save index again

; cmp cx ,0

; copy s1 onto s1 via movsb , indices have been saved before.

;Loop above process till index2 is = length of string

**Solution 2:**

Flip:

.

. ; push reg

.

.

mov cx, 960

mov ax , 0xB800

mov es, ax

mov ds, ax

mov si, 0

mov di, 3998

L1: cld

stosw

std

lodsw

loop L1

.

. ; pop reg

.

ret

**Solution 3:**

(i)

Case 1: ax is some big number, cx = 0xFFFF, bl = 0x0004

Case2: ax is some small number, cx =0, bl = 0x0004

(ii) Hi everyone Hi everyone Hi everyone