Program to compare two strings

.model small
.stack 100h
.data
Msg1 DB "Name: \$"
Msg2 DB "Microprocessor: \$"
EqualMsg DB "The strings are equal\$"
NotEqualMsg DB "The strings are not equal\$"
.code
Mov ax, @data
Mov ds, ax

Lea si, Msg1; Load address of Msg1 into SI Lea di, Msg2; Load address of Msg2 into DI

Repeat:

Lodsb;o load a byte from the source string (Msg1) into the AL register, and then compares it with a byte from the destination string (Msg2) using CMPSB

Cmpsb; Compare a byte from [SI] with a byte from [DI], and increment SI and DI

Jne NotEqual; If the bytes are not equal, jump to NotEqual label

Test al, al; Check if the end of the string has been reached Jnz Repeat; If not, repeat the loop

Equal:

Lea dx, EqualMsg; Load the address of EqualMsg into DX Jmp DisplayMsg; Jump to the DisplayMsg subroutine

NotEqual:

Lea dx, NotEqualMsg ; Load the address of NotEqualMsg into DX

DisplayMsg:

Mov ah, 09h; Set the function code for string output Int 21h; Call the DOS interrupt to display the appropriate

message

Mov ah, 4ch; Set the function code for program termination Int 21h; Call the DOS interrupt to terminate the program End