**String Manipulations**

**Ex No 5**

**Date**

1.Finding the length of a given string and store the length in a memory location

.model small

.stack

.data

str1 db "amrita$"

strlen db 0h

.code

.startup

mov si, offset str1

check:cmp [si], '$'

jz exit

inc strlen

inc si

jmp check

exit:

.exit

end

2. Compare two strings and if equal move 01h to memory locaiton equal or move 00h

|  |  |
| --- | --- |
| .model small  .stack  .data  str1 db "amrita$"  str2 db "abcdef$"  strlen1 db 0h  strlen2 db 0h  equal db 1h  .code  .startup  ;Finding length of the first string  mov si, offset str1  check1:cmp [si], '$'  jz len2  inc strlen1  inc si  jmp check1  ;Finding length of the second string  len2: mov si, offset str2  check2:cmp [si], '$'  jz compare  inc strlen2  inc si  jmp check2 | ;Comparing the Strings  compare:mov dl, strlen2  mov cl,strlen1  inc cl  cmp strlen1, dl  jnz exit1  mov dx, ds  mov es, dx  mov si, offset str1  mov di, offset str2  loop1:cmpsb  jnz exit1  loop loop1  exit1: cmp cl,0h  jz exit  mov equal, 0h  exit:  .exit  end |

**Assignment**

1. Write an 8086 Assembly language program to find a given string is palindrome or not.
2. Write an 8086 Assembly language program Replace the character 'a' with 'z' in the given string.
3. Write an 8086 Assembly language program Splitting a given string with the length given in memory location split and store the remaining string in a different memory location.