Data Structure

Prepared By: Prof. Kinjal Bhalodiya

Reversing a string

1. Set i=0, j=length(str)-1
2. While i<j repeat steps 3 to 5
3. Swap (str[i], str[j])
4. i=i+1
5. j=j-1
6. Exit

Comparing Length of Two Strings

1. Set i=0
2. Set len1=length(str1), len2=length(str2)
3. If len1>len2
    - Print “String1 is greater than string2”
    - Else if len1<len2
        - Print “String2 is greater than string1”
    - Else
        - Print “Equal”
    - End
4. Exit

Comparing Content of Two Strings

1. Set i=0
2. Set len1=length(str1), len2=length(str2)
3. If len1!=len2
    - Print “Not Equal”

   Else
    - Repeat while i<len1
        - If str1[i]==str2[i]
            - i=i+1
        - Else
            - Print “Not Equal” break;
    - End

   End

   If i=len1

   Print “Equal”

   End
4. Exit

Task-1

- Develop an algorithm for inserting a new string at given position.
- i.e. Enter Main String: Cls
- Enter New String: as
- Enter location where you wan to insert the new string: 2
- Final String: Class

Task-2

- Implement a C code to inserting new string in the main string.
- i.e. Enter first string: DS
  Enter Second string: Class
  Final string: DSClass