Practice Set: String (12 problems) – v202

<table>
<tr><th>SL</th><th>Problem statement</th><th>Difficulty levels</th></tr>
<tr><td>1.</td><td>Program that will take as input a string, and find out its length.

<table><tr><th>Sample input</th><th>Sample output</th></tr><tr><td>SPL Laboratory</td><td>14</td></tr><tr><td>United International University</td><td>31</td></tr></table></td><td>*</td></tr>
<tr><td>2.</td><td>Program that will take as input a string, and convert all the uppercase letters in it to lowercase.

<table><tr><th>Sample input</th><th>Sample output</th></tr><tr><td>CSI 122</td><td>csi 122</td></tr><tr><td>United International University</td><td>united international university</td></tr></table></td><td>*</td></tr>
<tr><td>3.</td><td>Program that will take as input a string, and toggle cases of all the letters.

<table><tr><th>Sample input</th><th>Sample output</th></tr><tr><td>SPL Laboratory</td><td>spl lABORATORY</td></tr><tr><td>United International University</td><td>uNITED iNTERNATIONAL
uNIVERSITY</td></tr></table></td><td>*</td></tr>
<tr><td>4.</td><td>Program that will find out if a given string is a palindrome or not.

<table><tr><th>Sample input</th><th>Sample output</th></tr><tr><td>civic</td><td>Palindrome</td></tr><tr><td>economic</td><td>Not palindrome</td></tr></table></td><td>**</td></tr>
<tr><td>5.</td><td>Program that will take as input two strings, and find out the one that is lexicographically smaller than the other. A lexicographically smaller string appears earlier in a dictionary.

<table><tr><th>Sample input</th><th>Sample output</th></tr><tr><td>SPL Lab
SPL Lad</td><td>SPL Lab</td></tr><tr><td>SPL Lab
SPL Bad</td><td>SPL Bad</td></tr><tr><td>SPL Lab
SPL Lab</td><td>Both equal</td></tr><tr><td>SPL Lab
SPL Laboratory</td><td>SPL Lab</td></tr></table></td><td>**</td></tr>
</table>

6. Program that will copy the contents of a string to another. *

Sample input	Sample output
SPL Lab	SPL Lab
United International University	United International University

7. Program that will take as input two strings str1 and str2, and concatenates the contents of str2 to the end of str1. **

Sample input	Sample output
SPL Laboratory Discrete Math	SPL LaboratoryDiscrete Math

8. Program that will take as input two strings str1 and str2, and find out if str2 is a substring of str1. ***

Sample input	Sample output
SPL Laboratory Lab	Substring
SPL Laboratory APL	Not substring

9. Program that will take as input a string (containing letters and spaces only), and print the words contained in the string in separate lines. ***

Sample input	Sample output
SPL Laboratory	SPL Laboratory
United International University	United International University

10. Program that will change a password. The actual password and the input password will be taken input. If they match, the system will print "Login successful." Otherwise it will print "Login failed." **

Sample input	Sample output
abc123 abcdef	Login failed
A1b2c3 A1b2c3	Login successful

11. Program to find if two strings are the same ignoring case. **

Sample input	Sample output
spl sql	No
John@bscse.uiu.ac.bd john@bscse.uiu.ac.bd	Yes

12. Program to find if two words are anagrams. [Two strings are anagrams if they have the same number of occurences of each letter used in the strings] ***

Sample input	Sample output
LISTEN SILENT	Yes
GREASE AGREES	Yes
MATCH CATCH	No