

CSE 115L: Practice Problems (String and Function)

1. Take two string inputs, calculate lengths of both (without using `strlen()`) and display the smaller one.
2. Compare two string inputs and print "Equal" if the strings are same, and print "not equal" otherwise. You are not allowed to use `strcmp()`.
3. Print the ASCII values of all characters in a string given as input.
4. Take a string input A which will include both uppercase and lowercase letters. Now copy only the lowercase letters to another string B. Display B.
5. Take a string input and determine whether the input is a valid password or not. A password is valid if it satisfies the following conditions:
 - A password must contain at least 6 characters
 - All characters of a password must be letters or digits
6. Declare two strings A and B of size 100 and 50, respectively. Then take user input of both strings. Concatenate (join) B at the end of A using loop. Display the concatenated string.

Enter first string: Bangla

Enter second string: desh

After joining, first string: Bangladesh

7. A 5-digit positive integer is entered through the keyboard, write a function to calculate and return sum of digits of this 5-digit number passed as parameter to the function.
8. Write a function to calculate the factorial value of any integer passed as parameter.
9. Write a function with the following prototype that will shift all elements one place towards right and put the last element to the first place:

```
void rightRotate(int a[ ], int n);
```

From the main function declare the following array:

```
int x[ ] = {5, 1, 3, 7, 2};
```

Use the above function to right rotate all elements. Finally print the elements.