

# Tutorial 4

## CSE101 : Introduction to Programming

(Monsoon 2019)

September 2/3, 2019

Topics: String Slicing, Using String Library Functions, Scopes

**Problem 1.** Write a program to check if two strings are anagrams of each other.

[An anagram of a string is a string created by its letters, but not necessarily in the same order].

For eg, isAnagram(RAT, TRA) = True, but isAnagram(BUILD, GREAT) = False.

Given: A function **sorted(s)** that takes a string and returns a sorted string.

**Problem 2.** Write a function **findDirectory(s)** which takes a string as an input and returns the current working directory. Basically, the string 's' is the path to the current working directory (cwd). The path always contains 3 directories out of which the last one is the cwd, separated by '/' (forward slash). For eg. given path: 'a/b/c' returns 'c' as the cwd.

**Problem 3.** A string is called palindromic if it is equal to its reverse. Write a function which returns True if the string is a palindrome, and False otherwise. (Note: In this case, we consider lowercase and uppercase letters to be the same. For eg. 'N' is the same as 'n', and vice versa. Furthermore, in this case, the string will only contain characters of the English Alphabet)

eg . "Naman" : True

"naman" : True

"Manan" : False

**Problem 4.** What is the output of the following codes and if there is an error, correct the code:

a)

```
def check():  
    print(a)  
    print(a+5)
```

```
a = int(input())  
check()
```

b)

```
def check():  
    print(a)      # to print the global value  
    a = 5  
    print(a+5)
```

```
a = int(input())  
check()
```