

Department of Computer Science and Engineering PES University, Bangalore, India

Lecture Notes Python for Computational Problem Solving UE23CS151A

Lecture #43 Problem Solving using Strings

By, Prof. Sindhu R Pai, Anchor, PCPS - 2023 Assistant Professor Dept. of CSE, PESU

Verified by, PCPS Team - 2023

Many Thanks to

Dr. Shylaja S S (Director, CCBD and CDSAML Research Centers, Former
Chairperson, CSE, PES University)

Prof. Chitra G M (Asst. Prof, Dept. of CSE, PCPS Anchor – 2022)



Problems on Strings:

Solutions are available in this link: https://drive.google.com/file/d/1-

Ys3gGVtIgUSFjmxBjzVwfKhlVy3bz-U/view?usp=drive_link

1. Program to input a string and print the squares of all the numbers in a String. Take care of special cases.

Input: wha4ts12ap1p Output: 16 1 4 144 1

2. Program to take two strings and find the Cartesian product of those two.

Input: str1: abc str2: ab

Output: a,a a,b b,a b,b c,a c,b

3. Program to find the sum of all substrings of a string representing a number.

Input : num = "1234"

Output: 1670

Sum = 1 + 2 + 3 + 4 + 12 + 23 + 34 + 123 + 234 + 1234 = 1670

- 4. Write a function to accept a string & swap the adjacent characters and make a new string.
- 5. Program to replace all occurrences of string YOU with I without using extra space.

Input: YOU AND PES
Output: I AND PES

6. Program to find the addition of pair of elements from the given 2 strings entered by the

Input: sindhu pai Output: spiani

- 7. Program to check whether the specified character is available in a string or not without using builtin functions.
- 8. Program to reverse a string entered by the user.
- 9. Program to delete the characters from string1 which are present in string2 and print the new string.

input: string1: whatsapp string2: wat output: hspp

10. Program to find if two strings are anagrams.

Anagrams: Same set of letters with different arrangements. Number of times a letter present in one string must be equal to the number of times the letter is present on another string. Examples: elegant man , a gentleman

-END-