

**NATIONAL PUBLIC SCHOOL HSR, BANGALORE**  
**ASSIGNMENT -2- 2023-24**  
**COMPUTER SCIENCE**

**STRING**

**Questions discussed**

- a) Write a program to input a string and print a report of all types of characters in the string
- No. of alphabets
- No. of digits
- No. of spaces
- No. of special characters.
- b) Write a program to input a string and check if it's a palindrome.
- Example radar, madam are palindrome strings
- c) Write a program to input a string and count the number of words in the string.
- d) Write a program to input a string and remove the extra spaces between the words. Also to remove the leading and trailing spaces.
- e) Write a program to input a string, delete all the occurrence of a character from the string.
- f) Write a Python program to input a string and reverse it as shown:-
- Example: - if the string is      Rahul Agrawal  
The output should be          luhaR lawargA
- g) Write a Python program to input a string and manipulate it in the given way:-
- Example: - if the string is      Rahul Kumar Agrawal  
The output should be          R. K. Agrawal

Q1 Write a Python program to input a string print the given patterns. Example: - if the string is RAHUL

R	R A H U L	R A H U L	R
R A	R A H U	R A H U	R A
R A H	R A H	R A H	R A H
R A H U	R A	R A	R A H U
R A H U L	R	R	R A H U L

Q2 Write a Python program to input a string and print the longest word of the string and its length which doesn't start with a vowel:-

Example: - if the string is      Rahul Dravid is a wonderful Player  
The output should be          the longest word is "wonderful" and its string length is 9

Q3 Write a Python program to input a string, count and display the number of occurrence each character in the given string: - Example: - if the string is **Independence**

The output should be                      I-1      n-3      d-2      e-4      p-1      c-1

Q4 Write a program to check if a string is a pangram or check if a string has all the letters of English alphabet. Print an appropriate message.

**Example:** *The quick brown fox jumps over the lazy dog.*

Q5 Write a program to input a string and check for the presence of words which are anagrams. Print an appropriate message if no such pair of words is found.

**Example:** “Please listen to the silent words, I saw the cat act in a strange manner”

*silent and listen are anagrams*

*cat and act are anagrams*

Q6\* The program must correct the input word by replacing the letters of the first group with the letters of the second group and print the corrected word. The input will consist of a single word followed by two groups of one or more letters, all separated by spaces.

[Sample Input/ Sample Output](#)

*Example 1*    MUSTARD M C

*Example 1*    CUSTARD

*Example 2*    JUNK J TR

*Example 2*    TRUNK

*Example 3*    MONSTER ON A

*Example 3*    MASTER