String Functions Assignment

Mandatory

- 1. WAP to prompt and read a line of text with words separated by space. Tokenise and extract the words. Display them. Imperent the following functions for this.
 - a. int tokenise(char *arr); //tokenise and display tokens, return number of tokens to the caller
 [Use strtok() to tokenise]

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user60@trainux01: ~/Batch17OCT2024_175/Assignments/Day07/String_Functions_Assignment

#include <stdio.h>
#include <string.h>

int tokenise(char *arr) {
    char *token;
    int count = 0;
    token = strtok(arr, "|");

    while (token != NULL) {
        printf("%s\n", token);
        count++;

        token = strtok(NULL, "|");

    }

    return count;

}

return count;

fether a line of text: ");

fgets(str, sizeof(str), stdin);

int numTokens = tokenise(str);

printf("Total number of tokens: %d\n", numTokens);

return 0;

return 0;

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```

2. Implement your own strncat() which shall concatenate n characters from src to dest.

char *strncat(char *dest, const char *src, size_t n)

■ user60@trainux01: ~/Batch17OCT2024_175/Assignments/Day07/String_Functions_Assignment 2 #include<string.h> 3 char *strncat_custom(char *dest, const char *src, size_t n) { char *destPtr = dest; while (*destPtr != '\0') { destPtr++; while (n-- && *src != '\0') { *destPtr++ = *src++; 10 } 11 *destPtr 12 return de 13 } 14 int main() { 15 char dest 16 char src[17 strncat co 18 printf("Co 19 return 0; 20 } 21 *destPtr = '\0'; char dest[100] = "Hello, "; char src[] = "world!"; strncat_custom(dest, src, 3); printf/"Songatomated_string;

3. WAP to

printf("Co
return 0;

a. Search for and replace the vowel characters (upper and lower case) with "ay" in a word read from user. Consider a maximum word length of 40 characters.

g: %s\n", dest);

- b. Identify the test inputs to be used
- c. Display updated string