

PRACTICAL – 9 CTSD

- 1 Write a C program that displays the position or index in the string S where the string T begins, or -1 if S doesn't contain T.

```
#include<stdio.h>
#include<string.h>
#include<conio.h>
void main()
{
    char s[30], t[20];
    char *found;
    clrscr();
    puts("Enter the first string: ");
    gets(s);
    puts("Enter the string to be searched: ");
    gets(t);
    found = strstr(s, t);
    if(found)
    {
        printf("Second String is found in the First String at %d position.\n", found - s);
    }
    else
    {
        printf("-1");
    }
    getch();
}
```

OUTPUT:

```
1.Enter the first string: Parul
Enter the string to be searched: ul
second string is found in the first string at 2 position
2.Enter the first string: Parul university
Enter the string to be searched: university
second string is found in the first string at 4 position
3.Enter the first string: Vadodara
Enter the string to be searched: ra
-1
```

2 Write a C program to count the lines, words and characters in a given text.

```
#include <stdio.h>
#include <stdlib.h>
int main
{
    FILE * file;
    char path[100];
    char ch;
    int characters, words, lines;
    file=fopen("counting.txt","w");
    printf("enter the text.press cntrl Z:");
    while((ch = getchar())!=EOF)
    {
        putc(ch,file);
    }
    fclose(file);
    printf("Enter source file path: ");
    scanf("%s", path);
    file = fopen(path, "r");
    if (file == NULL)
    {
        printf("Unable to open file.");
        exit(EXIT_FAILURE);
    }
    characters = words = lines = 0;
    while ((ch = fgetc(file)) != EOF)
    {
        characters++;
        if (ch == " || ch == '\0')
            lines++;
        if (ch == ' ' || ch == '\t' || ch == " || ch == '\0')
            words++;
    }
    if (characters > 0)
    {
        words++;
        lines++;
    }
    printf("");
    printf("Total characters = %d", characters);
    printf("Total words = %d", words);
    printf("Total lines = %d", lines);
    fclose(file);
    return 0;
}
```

OUTPUT:

enter the text.press cntrl Z:

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^Z

Enter source file path: counting.txt

Total characters = 116

Total words = 23

Total lines = 6