

Shri Ramdeobaba College of Engineering and Management
Department of Electronics and Computer Science Engineering

- 8) Apply file handling concepts in C.
- Write a C program to Count the number of characters, spaces, tabs and newlines in a file.
 - Write a C program to append the contents of one file at the end of another.

//Program to count number of tabs, spaces, characters and new lines

//Create a file name sample1.txt with some spaces, tabs, alphabets, new lines in it in the same folder where you are writing/saving the C code.

```
#include<stdio.h>
int main()
{
    FILE *fp;
    char ch;
    int noc=0, nos=0, notab=0, nol=0;
    fp = fopen("sample1.txt", "r");
    while(1)
    {
        ch = fgetc(fp);
        if(ch==EOF)
            break;
        noc++;
        if(ch==' ')
            nos++;
        if(ch=='\t')
            notab++;
        if(ch=='\n')
            nol++;
    }
    fclose(fp);
    printf("\nNumber of characters = %d", noc);
    printf("\nNumber of spaces = %d", nos);
    printf("\nNumber of tabs = %d", notab);
    printf("\nNumber of newline = %d", nol);
    return 0;
}
```

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//Program to append the contents of one file at the end of another.

//Create two files namely name.txt and surname.txt with your name and surname in it in the same folder where you are writing/saving the C code.

```
#include<stdio.h>
#include<stdlib.h>
#include<string.h>
int main()
{
FILE *fs,*ft;
char source[67],target[67],str[80];
puts("Enter source file name:");
gets(source);
puts("Enter target file name:");
gets(target);
fs=fopen(source,"r");
if(fs==NULL)
{
puts("Unable to open source file");
exit(0);
}
ft=fopen(target,"a");
if(ft==NULL)
{
fclose(fs);
puts("Unable to open target file");
exit(0);
}
while(fgets(str,79,fs)!=NULL)
    fputs(str,ft);
printf("appending file completed");
fclose(fs);
fclose(ft);
return 0;
}
```

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