# Birla Institute of Technology, Mesra, Patna Campus



## **CD-Assignment**

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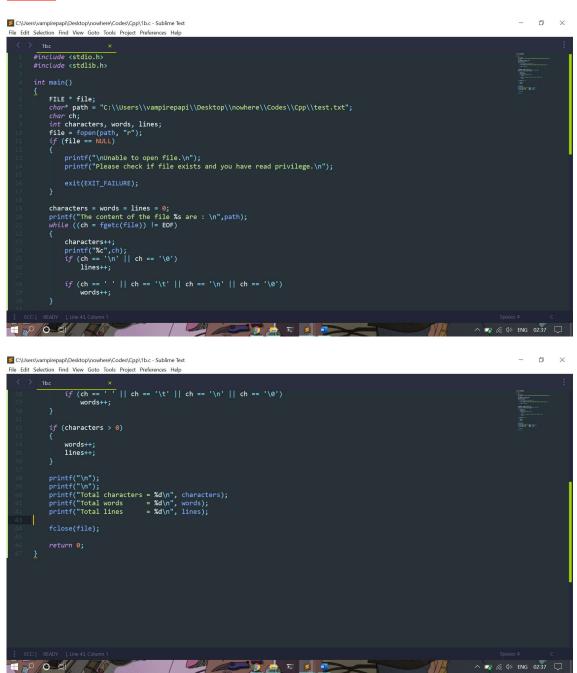
Roll-Btech/15044/18

Sec-CSE 6<sup>th</sup>

### Assignment-1

Q 1. Write a program to count characters, word, line of the text file using file handling. Thetext file also having numeric values.

#### Code:-



#### **Output:-**

```
The content of the file C:\Users\vampirepapi\Desktop\nowhere\Codes\Cpp\test.
Shubham Sourabh
Himanshu Kislay
Anish Raj
Alexndra - Alex
Emilia Clarke

Total characters = 71
Total words = 11
Total lines = 5
[Finished in 1.0s]
```

#### Code:-

```
O Debug
                                           H Save
                   Run
                                                                             { } Beautify
4
     main.c
             #include<stdio.h>
         2 int main()
         3 {
                 char str[200];
                 int line, word, ch;
                 line = word = ch = 0;
                 printf("Enter string terminated with \sim :\n"); scanf("%[^\sim]", str);
        11
                 for(int i=0; str[i]!='\0'; i++)
                 {
                     if(str[i]=='\n')
                        line++;
                        word++;
                     }
                     {
                        if(str[i]==' '||str[i]=='\t')
                            word++;
                            ch++;
                        }
                        else {
                            ch++;
                    }
                 }
                 printf("\nCharacter counts = %d\n", ch);
printf("Word counts = %d\n", word);
printf("Line counts = %d\n", line);
                 return 0;
        41 }
```

#### **Output:-**

```
Enter string terminated with ~ :
Shubham Sourabh
Himanshu Kislay
Anish Raj
Alexndra - Alex
Emilia Clarke
~
Character counts = 67
Word counts = 11
Line counts = 5

...Program finished with exit code 0
Press ENTER to exit console.
```

Q3. Writea program to count no of repeated words of a text file using file handling, which will have ended with alphabets s or t.

#### Code:-

```
File Edit Selection Find View Goto Tools Project Preferences Help
      #include <stdio.h>
      #include <string.h>
      char str[100];
      void main()
           FILE * file;
          char* path = "C:\\Users\\vampirepapi\\Desktop\\nowhere\\Codes\\Cpp\\test.txt
          char ch;
          int i, t, j, len;
          printf("Enter a string : ");
          scanf("%[^\n]s", str);
          file = fopen(path, "r");
          if (file == NULL)
               printf("\nUnable to open file.\n");
               printf("Please check if file exists and you have read privilege.\n");
              exit(EXIT_FAILURE);
          len = strlen(str);
          str[len] = ' ';
          for (t = 0, i = 0; i < strlen(str); i++)
               if ((str[i] == ' ') && (str[i - 1] == 's'))
                   for (j = t; j < i; j++)
                       printf("%c", str[j]);
                   t = i + 1;
```

```
<u>File Edit Selection Find View Goto Tools Project Preferences Help</u>
             str[len] = ' ';
             for (t = 0, i = 0; i < strlen(str); i++)</pre>
                  if ((str[i] == ' ') && (str[i - 1] == 's'))
                       for (j = t; j < i; j++)
    printf("%c", str[j]);</pre>
                       t = i + 1;
                       printf("\n");
                  else
                       if (str[i] == ' ')
                            t = i + 1;
             }
```

#### Output:-

```
Repeated words ended with alphabets s or t
words ended with s : 9
words ended with t : 4

[Finished in 0.9s]
```