Programming Fundamentals Lab Lab Assignment 12

Course Code: CL1002

Syed Muhammad Shuja Ur Rahman

Roll No. 22K-4456

Ms. Ayesha Ali

Question: 1

```
q2.c q3.c q1.c
 1
      #include<stdio.h>
      #include<string.h>
      #include<stdlib.h>
 3
 5 = main(){
 6
          FILE *fp1,*fp2,*fp3;
 7
          char str[10],ch;
 8
 9
          fp1= fopen("text1.txt", "w");
          if(fp1==NULL)
10
11 🖨
12
              printf("Error opening file\n");
13
              exit(0);
14
15
          printf("Enter Data to store in File 1: ");
                                                                                   text1 - Notepad
16
          fflush(stdin);
17
          gets(str);
          fputs(str, fp1);
18
19
                                                                                      Edit
                                                                             File
                                                                                                View
20
          fp2= fopen("text2.txt", "w");
          if(fp2==NULL)
21
22 🚍
23
              printf("Error opening file\n");
                                                                             syed
24
              exit(0);
25
          printf("Enter Data to store in File 2: ");
26
                                                                                  text2 - Notepad
27
          gets(str);
28
          fputs(str, fp2);
29
                                                                            File
                                                                                     Edit
                                                                                               View
30
          fp3=fopen("text3.txt","w");
          if(fp3==NULL)
31
32 🚍
33
              printf("Error opening file\n");
                                                                            shuja
34
              exit(0);
35
36
          else{
37 🗀
38
39
              while((ch=fgetc(fp1))!=EOF)
40 🗀
                  fputc(ch, fp3);
41
42
              while((ch=fgetc(fp2))!=EOF)
43
44 🖃
45
                  fputc(ch,fp3);
46
47
              rewind(fp3);
48
              fclose(fp1);
              fclose(fp2);
49
50
              fclose(fp3);
51
              printf("text1.txt & text2.txt have been merged successfully\n");
52
53
54
55
 C:\Users\Admin\Desktop\PF L X
Enter Data to store in File 1: syed
Enter Data to store in File 2: shuja
text1.txt & text2.txt have been merged successfully
Process exited after 8.96 seconds with return value \theta
Press any key to continue . . .
```

Question: 2

```
q2.c q3.c q1.c
#include <stdio.h>
 2
     #include<string.h>
     #include <stdlib.h>
 3
     int main()
 4
5 □ {
 6
      FILE *fp1,*fp2; char str[25];
7
      int i,j,freq[26]={0},count=0,ch;
8
9
    fp1=fopen("text.txt","w");
10
     printf("enter text: ");
11
12
     gets(str);
13
     fprintf(fp1,"%s",str);
     fclose(fp1);
14
15
16
    if(fp1==NULL)
                                                                    q2ii - Notepad
17 🖨 {
        printf("error.\n");exit(0);
18
19
20 | else
21 | {
                                                               File
                                                                       Edit
                                                                               View
22
        fgets (str, 20, fp1);
23
        printf("Text is: %s\n",str);
                                                               Character 'A/a' Occurs 2 Times
24
        fclose(fp1);
25
                                                               Character 'E/e' Occurs 1 Times
26
                                                               Character 'H/h' Occurs 1 Times
27
        for(i = 0; str[i] != '\0'; i++)
31
                                                               Character 'I/i' Occurs 1 Times
               freq[str[i] - 'a']++;
32
                                                               Character 'J/j' Occurs 1 Times
            else if(str[i] >= 'A' && str[i] <= 'Z')
33
34 🗀
                                                               Character 'M/m' Occurs 2 Times
35
               freq[str[i] - 'A']++;
                                                               Character 'N/n' Occurs 1 Times
36
37
                                                               Character 'S/s' Occurs 2 Times
38
        fp2=fopen("q2ii.txt","w");
                                                               Character 'U/u' Occurs 1 Times
39
        for(i = 0; i < 26; i++)
40
                                                               Character 'Y/y' Occurs 1 Times
41 🖨
42
            if(freq[i] != 0)
                                                               Total characters: 13
43 🖨
44
               fprintf(fp2,"Character '%c/%c' Occurs %d Times \n", i+'A',i+'a', freq[i]);
45
46
47
        for(i=0;i<strlen(str);i++)</pre>
48 🖨
49
            if(str[i]==' ')
50
            continue;
51
            else count++;
52
        fprintf(fp2,"Total characters: %d",count);
53
54
55
56
```

Question: 3

```
q2.c q3.c q1.c
 1
         #include<stdio.h>
  2
         #include<string.h>
 4 <del>|</del> 5
                 struct stdnt{
                       char id[10], name[20],gender;
int quiz1,quiz2,mid,final,total;
 6
                 }s[20];
  8
 9 ☐ int main(){
10
                int n,i;
FILE *fp;
11
12
         fp=fopen("Q3.txt","w+");
13
14
                 for(i=0;i<2;i++)
15 🖨
                       printf("Details of student %d:\n",i+1);
printf("Enter name of student: ");
16
17
                 fflush(stdin);
18
19
                       gets(s[i].name);
printf("ID: ");
20
                       print( ID: );
gets(s[i].id);
printf("Gender: ");
scanf("%c",&s[i].gender);
printf("Quiz 1: ");
scanf("%d",&s[i].quiz1);
printf("Quiz 2: ");
scanf("%d",&s[i].quiz2);
21
22
23
24
25
26
                       scanf("%d",&s[i].quiz2);
printf("Mids: ");
27
28
                      scanf("%d",&s[i].mid);
printf("Final: ");
scanf("%d",&s[i].final);
29
30
31
32
33
34
35
36
37
38
39
                      s[i].total=s[i].final+s[i].quiz1+s[i].quiz2+s[i].mid;
fprintf(fp,"%s %s %c %d %d %d %d %d\n",s[i].name,s[i].id,s[i].gender,s[i].quiz1,s[i].quiz2,s[i].mid,s[i].final,s[i].total);
         fclose(fp);
40
```



