

01)

```
#include <stdio.h>
int main(){
FILE *fp;
char name[50], ch;
char city[20];
int age;
printf("Enter your name : ");
gets(name);
printf("Enter your city : ");
gets(city);
printf("Enter your age : ");
scanf("%d", &age);
fp = fopen("info.txt", "w");
fprintf(fp, "%s\n%s\n%d\n", name, city, age);
fclose(fp);
printf("Your information : \n");
fp = fopen("info.txt", "r");
while(1){
ch = fgetc(fp);
if(ch==EOF)
break;
printf ("%c", ch);
}
fclose(fp);
return 0;
}
```

02)

```
#include <stdio.h>
int main(){
FILE *fp;
int count=0;
char fname[50];
char c;
printf("Enter the file name : ");
gets(fname);
fp = fopen(fname, "r");
if(fp==NULL){
printf("Could not open the file : %s", fname);
return 0;
}
do{
c=getc(fp);
if(c=='\n')
count+=1;
}while(c!=EOF);
fclose(fp);
printf("The number of lines in the file is : %d", count);
return 0;
}
```

03)

```
#include <stdio.h>
int main(){
FILE *fp;
int wordCount=0, charCount=0;
char fname[50];
char c;
printf("Enter the file name : ");
gets(fname);
fp = fopen(fname, "r");
if(fp==NULL){
    printf("Could not open the file : %s", fname);
}
else{
    do{
        c=fgetc(fp);
        if(c==' ' | c=='\n')
            wordCount++;
        else
            charCount++;
    }while(c!=EOF);
}
printf("The number of words in the file :
%d\n",wordCount);
printf("The number of characters in the file :
%d\n",charCount-1);
fclose(fp);
return 0;
}
```

04)

```
#include <stdio.h>
int main(){
FILE *fp1, *fp2;
char filename[40];
char c;
int del_line, temp=1;
printf("Enter file name : ");
gets(filename);
fp1 = fopen(filename, "r");
c = fgetc(fp1);
while(c!=EOF){
    printf("%c", c);
    c = fgetc(fp1);
}
printf("\n");
fclose(fp1);
printf("Enter the line number that you need to delete : ");
scanf("%d", &del_line);
fp1 = fopen(filename, "r");
fp2 = fopen("copy.txt", "w");
c = fgetc(fp1);
while(c!=EOF){
    if(c=='\n')
        temp++;
    if(temp!=del_line){
        fputc(c, fp2);
    }
    c = fgetc(fp1);
}
fclose(fp1);
fclose(fp2);

remove(filename);

rename("copy.txt", filename);
printf("The contents of the new file :\n");
fp2 = fopen(filename, "r");
c = fgetc(fp2);
while(c!=EOF){
    printf("%c", c);
    c = fgetc(fp2);
}
fclose(fp2);
return 0;
}
```

05)

```
#include <stdio.h>
#define BUFFER_SIZE 1000
int main(){
    FILE *fp1, *fp2;
    char filename[40];
    char read_line[100];
    char input_line[100];
    char c;
    int replace_line_no, count;
    printf("Enter file name : ");
    gets(filename);
    fp1 = fopen(filename, "r");
    c = getc(fp1);
    while(c!=EOF){
        printf("%c", c);
        c = getc(fp1);
    }
    fclose(fp1);
    printf("Enter line number that you need to replace : ");
    scanf(" %d", &replace_line_no);
    printf("Enter line that you need to include as the line %d : ", replace_line_no);
    scanf(" %s", input_line);
    fp1 = fopen(filename, "r");
    fp2 = fopen("copy.txt", "w");
    count = 0;
    while((fgets(read_line, BUFFER_SIZE, fp1)) != NULL){
        count++;
        if(count==replace_line_no){
            fputs(input_line, fp2);
            fputc('\n', fp2);
        }
        else
            fputs(read_line, fp2);
    }
    fclose(fp1);
    fclose(fp2);
    remove(filename);
    rename("copy.txt", filename);
    printf("The contents of the new file :\n");
    fp2 = fopen(filename, "r");
    c = fgetc(fp2);
    while(c!=EOF){
        printf("%c", c);
        c = fgetc(fp2);
    }
    fclose(fp2);
    return 0;
}
```

06)

```
#include <stdio.h>
int main(){
    FILE *fp;
    int i,n;
    char str[100];
    char filename[20];
    char c;
    printf("Enter the file name : ");
    scanf(" %s", filename);
    printf("Enter the number of lines to be written : ");
    scanf(" %d", &n);

    fp = fopen(filename, "a");
    printf("Enter the lines :\n");
    for(i=0; i<n; i++){
        scanf(" %s", str);
        fprintf(fp, "%s\n", str);
    }
    fclose(fp);

    fp = fopen(filename, "r");
    printf("The contents of the file :\n");
    c = fgetc(fp);
    while(c!=EOF){
        printf("%c", c);
        c = fgetc(fp);
    }
    fclose (fp);
    return 0;
}
```

07)

```
#include <stdio.h>
int main(){
FILE *fp1, *fp2;
char filename[40];
char newfilename[40];
char c;
int del_line, temp = 1;
printf("Enter file name : ");
gets(filename);
fp1 = fopen(filename, "r");
printf("Enter a new file name : ");
gets(newfilename);
fp2 = fopen("copy.txt", "w");
c = fgetc(fp1);
while(c!=EOF){
    c = getc(fp1);
    fputc(c, fp2);
}

fclose(fp1);

remove(filename);

rename("copy.txt", newfilename);
printf("The contents of the new file :\n");
fp2 = fopen(newfilename, "r");
c = getc(fp2);
while(c!=EOF){
    printf("%c", c);
    c = getc(fp2);
}
fclose(fp2);
return 0;
}
```