

C-Programming Lab Sheet

I Year / I Part

Faculty: Computer/Electrical

Labsheet#10

Objectives:

1. To familiarized with syntax of opening and closing the file.
2. To familiarized with different file handling I/O function.
3. To understand reading and writing the data to the file.

Objectives #1

1.1 program to write data and into text file and read and display the data.

```
#include<stdio.h>
#include<conio.h>
#include<process.h>
void main(){
    FILE *fp;
    char ch;
    fp=fopen("data.txt","w");
    if(fp==NULL){
        printf("file cannot be open");
        exit(1);
    }

    puts("Enter data to store in file");
    while((ch=getchar())!='\n'){
        fputc(ch,fp);
    }

    fclose(fp);
    printf("\n contents read from file");
    fp=fopen("data.txt","r");

    while(!feof(fp)){
        ch=fgetc(fp);
        putchar(ch);
    }
    getch();
}
```

Assignment 1.1: Note the output of the above program and modify the above program to open in append mode. Add the data to the file and display the data before and after appending.

Objective #2

```
#include<stdio.h>
#include<conio.h>
#include<string.h>
void main(){
    char text[30]; char text1[3][10];
    int i;
    FILE *p;
    clrscr();
    p=fopen("ram.txt","w");

    for(i=0;i<=2;i++){
        scanf("%s",text[i]);
        fputs(text1[i],p);
        fprintf(p,"\n");
    }

    fclose(p);
    p=fopen("ram.txt","r");
    while(!feof(p)){
        printf(fgets(text,30,p),"%s",text);
    }
    getch();
}
```

Assignment 2.1: Note the output of the above program and modify the program to input the name, roll_no and mark of the five students using array of structure and store in the file. Read and Display the name of the students of those students whose mark is greater than 60.

Objective #3

Write a program to enter name rollno and mark of 5 students and store them in file in square of decreasing mark using fwrite() function. Read and display the same from the file using fread() function.

Assignment 3.1: Write a program to enter the item name, quantity and price of 5 items and store them in file in the following format.

Item_name	quantity	price
AA	10	100
BB	20	200
CC	15	250

Read and display the contents of the file in same format.