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**Malabe group 1.2 weekdays**

**Tutorial10**

**Week13**

**Exercise 1**

#include<stdio.h>

int main(void){ //main function execute

FILE\*fptr; //file pointer declaration

int num,temp; //variable declaration

fptr=fopen("number.dat","a+"); //open file

if(fptr==NULL){

printf("this file can't open. try again. "); //if file can't be fount print error messege

return -1; //exit from the program

}

printf("Enter number : "); //prompt

scanf("%d",&num); //read integer to num variable

fscanf(fptr,"%d",&temp); //read integer from file and assign to trmp variable

while(!feof(fptr)){ //reads the values till end of the file

if(num==temp){

printf("this number is alrady in the file"); //ckeck this number is in the file

return -1; //exit from the program

}

fscanf(fptr,"%d",&temp); //read integer to num variable

}

fprintf(fptr,"%d\t",num); //print integer to file

fclose(fptr); //close file

fptr=fopen("number.dat","r"); //open file

if(fptr==NULL){

printf("this file can't open. try again. "); //if file can't be fount print error messege

return -1; //exit from the program

}

fscanf(fptr,"%d",&temp); //read integer to temp variable

while(!feof(fptr)){

printf("%d\t",temp); //print number

fscanf(fptr,"%d",&temp); //read integer to temp variable

}

fclose(fptr); //close file

return 0;

}

**Exercise 2**

//Sachintha Hasaranga niyangoda it21194962

#include<stdio.h>

int main(void){ //main function execute

int patient=5;

char name[20]; //variable declaration

char type;

int con=0,sca=0,tes=0,i;

FILE\*app;

app=fopen("appointment.dat","w"); //open file

if(app==NULL){

printf("this file can't open. try again. "); //if file can't be fount print error messege

return -1; //exit from the program

}

for(i=0;i<patient;i++){

printf("enter patient name : "); //prompt

scanf("%s%\*c",name); //read a string to name variable

printf("enter type (C,T,S) : "); //prompt

scanf("%c%\*c",&type); //read character to type variable

fprintf(app,"%s\t%c\n",name,type); //print to file

}

fclose(app); //close file

app=fopen("appointment.dat","r"); //open file

if(app==NULL){

printf("this file can't open. try again. "); //if file can't be fount print error messege

return -1; //exit from the program

}

fscanf(app,"%s%\*c%c",name,&type); //read string and character from file

while(!feof(app)){ //read until file data are finished

if(type=='C'||type=='c'){ //check type whether c or not

con++; } //con increment by 1

else if(type=='S'||type=='s'){ //check type whether s or not

sca++; } //sca increment by 1

else if(type=='T'||type=='t'){ //check type whether c\t or not

tes++; } //tes increment by 1

fscanf(app,"%s%\*c%c",name,&type); //read string and character from file

}

fclose(app); //close file

printf("Appointment Type \tNumber of Patients\n");

printf("Consulting\t\t%d\n",con); //print number of patients of each type

printf("Scanning\t\t%d\n",sca);

printf("Testing\t\t\t%d\n",tes);

return 0;

}//end main function

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**END**