

## DAY-3

1. Write a program to create a data ,delete a data ,view a data ,modify the data in a files by using file handling

### Code:

```
#include <stdio.h>
#include <conio.h>
#include <windows.h>
#include <string.h>
COORD coord = {0,0};
void gotoxy(int x,int y)
{
    coord.X = x;
    coord.Y = y;
    SetConsoleCursorPosition(GetStdHandle(STD_OUTPUT_HANDLE),coord
);
}

int main()
{
    FILE *fp, *ft;
    char another, choice;
    struct emp
    {
        char name[40];
        int age;
        float bs;
    };
    struct emp e;
```

```
char empname[40];
long int recsize;
fp = fopen("D:\\Assignments\\Demo.txt","rb+");
if(fp == NULL)
{
    fp = fopen("D:\\Assignments\\Demo.txt","wb+");
    if(fp == NULL)
    {
        printf("Connot open file");
        exit(1);
    }
}
recsize = sizeof(e);
while(1)
{
    system("cls");
    gotoxy(30,10);
    printf("1. Add Record");
    gotoxy(30,12);
    printf("2. List Records");
    gotoxy(30,14);
    printf("3. Modify Records");
    gotoxy(30,16);
    printf("4. Delete Records");
    gotoxy(30,18);
    printf("5. Exit");
    gotoxy(30,20);
```

```
printf("Your Choice: ");
fflush(stdin);
choice = getche();
switch(choice)
{
case '1':
    system("cls");
    fseek(fp,0,SEEK_END);

    another = 'y';
    while(another == 'y')
    {
        printf("\nEnter name: ");
        scanf("%s",e.name);
        printf("\nEnter age: ");
        scanf("%d", &e.age);
        printf("\nEnter basic salary: ");
        scanf("%f", &e.bs);
        fwrite(&e,recsize,1,fp);
        printf("\nAdd another record(y/n) ");
        fflush(stdin);
        another = getche();
    }
    break;
case '2':
    system("cls");
    rewind(fp);
```

```

while(fread(&e,recsize,1,fp)==1)
{
    printf("\n%s %d %.2f",e.name,e.age,e.bs);
}
getch();
break;
case '3':
    system("cls");
    another = 'y';
    while(another == 'y')
    {
        printf("Enter the employee name to modify: ");
        scanf("%s", empname);
        rewind(fp);
        while(fread(&e,recsize,1,fp)==1)
        {
            if(strcmp(e.name,empname) == 0)
            {
                printf("\nEnter new name,age and bs: ");
                scanf("%s%d%f",e.name,&e.age,&e.bs);
                fseek(fp,-recsize,SEEK_CUR);
                fwrite(&e,recsize,1,fp);
                break;
            }
        }
        printf("\nModify another record(y/n)");
        fflush(stdin);
    }
}

```

```

        another = getche();
    }
    break;
case '4':
    system("cls");
    another = 'y';
    while(another == 'y')
    {
        printf("\nEnter name of employee to delete: ");
        scanf("%s",empname);
        ft = fopen("D:\\Assignments\\Temp.txt","wb");
        rewind(fp);
        while(fread(&e,recsize,1,fp) == 1)
        {
            if(strcmp(e.name,empname) != 0)
            {
                fwrite(&e,recsize,1,ft);
            }
        }
        fclose(fp);
        fclose(ft);
        remove("D:\\Assignments\\Demo.txt");
        rename("D:\\Assignments\\Temp.txt","D:\\Assignments\\Demo.txt");
        fp = fopen("D:\\Assignments\\Demo.txt", "rb+");
        printf("Delete another record(y/n)");
        fflush(stdin);
        another = getche();
    }
}

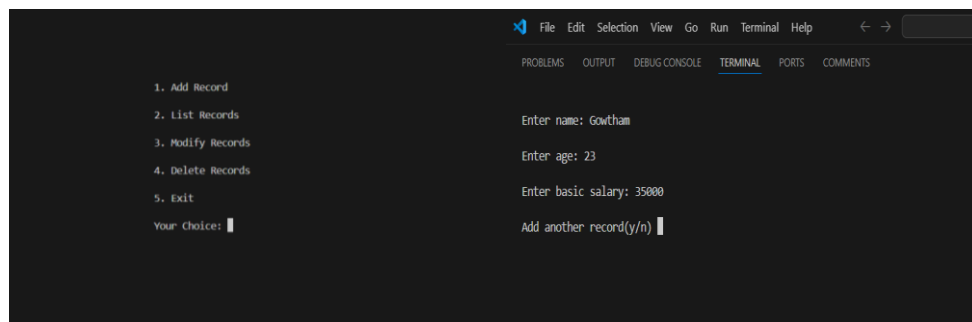
```

```

    }
    break;
case '5':
    fclose(fp);
    exit(0);
}
}
return 0;
}

```

## Output:

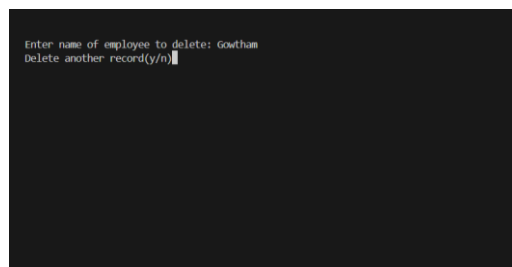


```

1. Add Record
2. List Records
3. Modify Records
4. Delete Records
5. Exit
Your Choice: █

Enter name: Gowtham
Enter age: 23
Enter basic salary: 35000
Add another record(y/n) █

```



```

Enter name of employee to delete: Gowtham
Delete another record(y/n) █

```

## 2.Read the data form file.

### Code:

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
void main() {
```

```
    FILE *fptr;
```

```

fptr = fopen("D:\\Assignments\\t1.txt", "r");
if (fptr == NULL) {
    printf("Error!!!!\n");
    exit(1);
}

char a[100];
while (fgets(a, sizeof(a), fptr) != NULL) {
    printf("%s", a);
}
fclose(fptr);
}

```

## Output:

Note: Whatever the data inside your txt file it will print like that Only. This is my t1.txt as you can observe Below.



**3. Write a Program to find the month of a calendar, The month has to enter by the user.**

## Code:

```

#include <stdio.h>

#include <time.h>

```

```
#include<ctype.h>

int choice(){
    printf("Enter the Month:\n");
    int a;
    scanf("%d", &a);
    printf("=====\\n");

    if(a==1)
    {
        return 0;
    }
    else if(a==2){
        return 1;
    }
    else if(a==3){
        return 2;
    }
    else if(a==4){
        return 3;
    }
    else if(a==5){
        return 4;
    }
    else if(a==6){
        return 5;
    }
    else if(a==7){
```



```
        return 6;
    }
    else if(a==8){
        return 7;
    }
    else if(a==9){
        return 8;
    }
    else if(a==10){
        return 9;
    }
    else if(a==11){
        return 10;
    }
    else if(a==12){
        return 11;
    }
    return -1;
}

int main() {
    int year = 2024;
    struct tm date = {0};
    date.tm_year = year - 1900;
    date.tm_mon = 0;
    date.tm_mday = 1;

    printf("Enter the date to travel: \n");
```

```

int da;
scanf("%d", &da);
int a=choice();
if(a==-1){
    printf("Enter the correct month: \n");
    return 1;
}
date.tm_mon=a;
mktime(&date);
printf("Sun Mon Tue Wed Thu Fri Sat\n");
for (int i = 0; i < date.tm_wday; i++) {
    printf("  ");
}
int c=0;
while (date.tm_mon == a) {
    printf("%3d ", date.tm_mday);
    if(da==date.tm_mday){
        c=1;
    }
    if (date.tm_wday == 6) {
        printf("\n");
    }
    date.tm_mday++;
    mktime(&date);
}
if(c==1){
    printf("\nDate Found\n");
}

```

```
}  
  
printf("\nCalendar for the year %d:\n\n", year);  
  
  
  
return 0;  
  
}
```

Output:

```
Enter the Month:  
6  
=====  
Sun Mon Tue Wed Thu Fri Sat  
      1  
2  3  4  5  6  7  8  
9 10 11 12 13 14 15  
16 17 18 19 20 21 22  
23 24 25 26 27 28 29  
30  
Date Found  
  
Calendar for the year 2024:
```