```c
#include<unistd.h>
#include<sys/stat.h>
#include<fcntl.h>
#include<stdio.h>
#include<stdlib.h>
#define SRC_FILE_NAME "SRC1.txt"
#define DEST_FILE_NAME "DEST1.TXT"
typedef struct Employee
{
    int Id;
    char Name[10];
}Employee;

int main()
{
    Employee E;
    char c;
    int in, out,d,flag=0,cont;
    int ch,sz;
    do
    {
        flag=0;
        printf("\nMenu\n1)Enter
Details\n2)Display\n3)Search\n4)Modify\n5)Delete\n6)Exit.");
        printf("\nEnter Your Choice");
        scanf("%d",&ch);
        switch(ch)
        {
            case 1:
                    if((in = open(SRC_FILE_NAME,
O_WRONLY|O_APPEND|O_CREAT, 0666))==-1)
                    {
                        printf("\nError in opening file");
```

```c
            exit(1);
        }

        else
        {
          printf("\nOpened File");
          printf("\nEnter Id & Name");
          scanf("%d%s",&E.Id,E.Name);
          write(in,&E,sizeof(Employee));
          close(in);
        }
        break;

    case 2:
          if((in = open(SRC_FILE_NAME, O_RDONLY))== -1)
          {
            printf("\nError in opening file");
            exit(1);
          }

          else
          {
            printf("\n\nSource File Opened");


            printf("\nID        NAME\n");

            while(read(in,&E,sizeof(Employee)))
             printf("%d\t\t%s\n",E.Id,E.Name);
          }
          close(in);
          break;
```

```c
        case 3:
                flag=0;
                in = open(SRC_FILE_NAME, O_RDONLY);
                if (( in = open(SRC_FILE_NAME, O_RDONLY)) == -1 )
                {
                    printf("\nError in opening file");
                    exit(1);
                }
                printf("\nSource file opened");
                printf("\nEnter ID to be searched");
                scanf("%d",&d);

                while(read(in,&E,sizeof(Employee)))
                {
                    if(E.Id==d)
                    {
                        printf("\nRecord found");
                        printf("\nID      Name\n");
                        printf("%d\t%s",E.Id,E.Name);
                        flag=1;
                        break;
                    }
                }
                if(flag!=1)
                    printf("\nRecord not found");
                break;
        case 4:
                flag=0;
                in = open(SRC_FILE_NAME, O_RDONLY);
                out = open(DEST_FILE_NAME,
O_WRONLY|O_CREAT,0666);
                if(!read(in,&E,sizeof(Employee)))
                {
```

```c
            printf("\nThe File is Empty");
            close(in);
            break;
        }
        printf("\nEnter ID to be searched");
        scanf("%d",&d);

        do
        {
            if(E.Id==d)
            {
                printf("\nEnter new Id and Name");
                scanf("%d%s",&E.Id,E.Name);
                flag=1;
            }
        write(out,&E,sizeof(Employee));
        }while(read(in,&E,sizeof(Employee)));

        close(in);
        close(out);
        if(flag!=1)
        {
            printf("\nRecord not present");
            break;
        }
        else
        {
            remove(SRC_FILE_NAME);
            rename(DEST_FILE_NAME,SRC_FILE_NAME);

            in = open(SRC_FILE_NAME,O_RDONLY);
            printf("\nSource File Opened");
            printf("\nID\t\tNAME\n");
```

```c
            while(read(in,&E,sizeof(Employee)))
                printf("%d\t\t%s\n",E.Id,E.Name);
            close(in);
            break;
        }
    case 5:
            flag=0;
            in = open(SRC_FILE_NAME, O_RDONLY);
            out = open(DEST_FILE_NAME,
O_WRONLY|O_CREAT,0666);
            if(!read(in,&E,sizeof(Employee)))
            {
                printf("\nThe File is Empty");
                close(in);
                break;
            }
            printf("\nEnter ID to be searched");
            scanf("%d",&d);
            printf("\nSource file opened");
            do
            {
                if(E.Id==d)
                    flag=1;
                else
                {
                    write(out,&E,sizeof(Employee));
                }
            }while(read(in,&E,sizeof(Employee)));

            close(in);
            close(out);
            if(flag!=1)
            {
```

```c
                    printf("\nRecord not present in file");
                    break;
                }
                else
                {
                    remove(SRC_FILE_NAME);
                    rename(DEST_FILE_NAME,SRC_FILE_NAME);

                    in = open(SRC_FILE_NAME,O_RDONLY);
                    printf("\nSource File Opened");
                    printf("\nID\t\tNAME\n");
                    while(read(in,&E,sizeof(Employee)))
                        printf("%d\t\t%s\n",E.Id,E.Name);
                    close(in);
                    break;
                }

        }

    }
    while(ch!=6);
}
/*
Menu
1)Enter Details
2)Display
3)Search
4)Modify
5)Delete
6)Exit.
Enter Your Choice1

Opened File
```

Enter Id & Name19
Chirag

Menu
1)Enter Details
2)Display
3)Search
4)Modify
5)Delete
6)Exit.
Enter Your Choice2

Source File Opened
ID   NAME
19   Chirag

Menu
1)Enter Details
2)Display
3)Search
4)Modify
5)Delete
6)Exit.
Enter Your Choice
3

Source file opened
Enter ID to be searched19

Record found
ID   Name
19   Chirag

Menu
1)Enter Details
2)Display
3)Search
4)Modify
5)Delete
6)Exit.
Enter Your Choice4

Enter ID to be searched19

Enter new Id and Name100
Frodo

Source File Opened
ID   NAME
100   Frodo

Menu
1)Enter Details
2)Display
3)Search
4)Modify
5)Delete
6)Exit.
Enter Your Choice5

Enter ID to be searched100

Source file opened
Source File Opened
ID   NAME

```
Menu
1)Enter Details
2)Display
3)Search
4)Modify
5)Delete
6)Exit.
Enter Your Choice2


Source File Opened
ID        NAME

Menu
1)Enter Details
2)Display
3)Search
4)Modify
5)Delete
6)Exit.
Enter Your Choice6
*/
```