

Assignment No: 5

Name: Kedar Kale

Roll No: CETTY129

Topic: File Directory Operations

Code:

```
#include<fstream.h>
```

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

```
#include<string.h>
```

```
#include<conio.h>
```

```
#include<process.h>
```

```
using namespace std;
```

```
class file
```

```
{
```

```
private:
```

```
int roll;
```

```
float age;
```

```
char name[100];
```

```
public:
```

```
void input();
```

```
void show();
```

```
char *getn()
```

```
{
```

```
return name;
```

```
}
```

```
};file fileobj;
```

```
void file::input()
```

```
{
```

```
cout<<"Enter the roll, Age and name :";
```

```

cin>>roll>>age;
gets(name);
}
void file::show()
{
cout<<"Roll==> "<<roll<<endl;
cout<<"Age ==> "<<age<<endl;
cout<<"Name==> "<<name<<endl;
}
void Create();
void Add();
void Display();
void DisplayP();
void Modify();
void Delete();

fstream fil;
int main()
{
int opt;
while(1)
{
clrscr();
cout<<"1.Create Data File"<<endl;
cout<<"2.Add New Record in Data File"<<endl;
cout<<"3.Display Record From Data File"<<endl;
cout<<"4.Display Particular Record From Data File"<<endl;
cout<<"5.Modify Paricular Record From Data File"<<endl;
cout<<"6.Delete Particular Record From Data File"<<endl;
cout<<"7.Exit From the Program"<<endl;

```

```
cout<<"Enter your Option : "<<endl;
cin>>opt;
switch(opt)
{
case 1:
{
Create();
cout<<"Display Main Menu"<<endl;
getch();
break;
}
case 2:
{
Add();
cout<<"Display Main Menu"<<endl;
getch();
break;
}
case 3:
{
Display();
cout<<"Display Main Menu"<<endl;
getch();
break;
}
case 4:
{
DisplayP();
cout<<"Display Main Menu"<<endl;
getch();
```

```
break;
}
case 5:
{
Modify();
cout<<"Display Main Menu"<<endl;
getch();
break;
}
case 6:
{
Delete();
cout<<"Display Main Menu"<<endl;
getch();
break;
}
case 7:
{
exit(0);
}
default:
{
cout<<"Wrong Choice....Press Key For View the Main Menu";
getch();
clrscr();
}
}
}
}
```

```
void Create() //Function to Create Data File
```

```
{  
char ch='y';  
fil.open("binary.dat",ios::out| ios::binary);  
while(ch=='y' || ch =='Y')  
{  
fileobj.input();  
fil.write((char*)&fileobj, sizeof(fileobj));  
cout<<"Want to Continue.....";  
cin>>ch;  
}  
fil.close();  
}
```

```
void Add() //Function to Add New Record in Data File
```

```
{  
char ch='y';  
fil.open("binary.dat",ios::app| ios::binary);  
while(ch=='y' || ch =='Y')  
{  
fileobj.input();  
fil.write((char*)&fileobj, sizeof(fileobj));  
cout<<"Want to Continue.....";  
cin>>ch;  
}  
fil.close();  
}
```

```
void Display() //Function to Display All Record from Data File
```

```
{
```

```
fil.open("binary.dat",ios::in| ios::binary);
if(!fil)
{
cout<<"File not Found";
exit(0);
}
else
{
fil.read((char*)&fileobj, sizeof(fileobj));
while(!fil.eof())
{
fileobj.show();
cout<<"Press Any Key....For Next Record"<<endl;
getch();
fil.read((char*)&fileobj, sizeof(fileobj));
}
}
fil.close();
}
```

```
void DisplayP() //Function to Display particular Record from Data File
{
char n[100];
cout<<"Enter Name that should be searched:";
gets(n);
fil.open("binary.dat",ios::in| ios::binary);
if(!fil)
{
cout<<"File not Found";
exit(0);
}
```

```

}
else
{
    fil.read((char*)&fileobj, sizeof(fileobj));
    while(!fil.eof())
    {
        if(strcmp(n,fileobj.getn())==0)
        {
            fileobj.show();
            cout<<"Press Any Key...."<<endl;
            getch();
        }
        else
        {
            cout<<"Press Any Key....For Search"<<endl;
            getch();
        }
        fil.read((char*)&fileobj, sizeof(fileobj));
    }
}
fil.close();
}

void Modify() //Function to Modify Particular Record from Data File
{
    char n[100];
    cout<<"Enter Name that should be searched:";
    gets(n);
    fil.open("binary.dat",ios::in|ios::out|ios::binary);
    if(!fil)
    {

```

```

cout<<"File not Found";
exit(0);
}
else
{
fil.read((char*)&fileobj, sizeof(fileobj));
while(!fil.eof())
{
if(strcmp(n,fileobj.getn())==0)
{
fil.seekg(0,ios::cur);
cout<<"Enter New Record.."<<endl;
fileobj.input();
fil.seekp(fil.tellg() - sizeof(fileobj));
fil.write((char*)&fileobj, sizeof(fileobj));
}
else
{
cout<<"Press Any Key....For Search"<<endl;
getch();
}
fil.read((char*)&fileobj, sizeof(fileobj));
}
}
fil.close();
}

```

```

void Delete() //Function to Delete Particular Record from Data File

```

```

{
char n[100];

```



```
cout<<"Enter Name that should be Deleted :";
gets(n);
ofstream o;
o.open("new.dat",ios::out|ios::binary);
fil.open("binary.dat",ios::in| ios::binary);
if(!fil)
{
cout<<"File not Found";
exit(0);
}
else
{
fil.read((char*)&fileobj, sizeof(fileobj));
while(!fil.eof())
{
if(strcmp(n,fileobj.getn())!=0)
{
o.write((char*)&fileobj, sizeof(fileobj));
}
else
{
cout<<"Press Any Key....For Search"<<endl;
getch();
}
fil.read((char*)&fileobj, sizeof(fileobj));
}
}
o.close();
fil.close();
remove("binary.dat");
```

```
rename("new.dat", "binary.dat");  
} //end of program
```