

## 11.Files

```
/* Roll No. : 2002
   Batch   : E-10
*/
```

```
#include<iostream>
#include<stdlib.h>
#include<string.h>
#include<fstream>
#include"file.h"
using namespace std;

int main()
{
    class stu b;
    int i,choice,s,n;
    static int p=0;

    do{

        cout<<"\n\n1.ADD DATA\n2.DELETE RECORD\n"
              "3.DISPLAY DATA\n4.SEARCH\n5.UPDATE DATA\n6.EXIT\nENTER
YOUR CHOICE:";
        cin>>choice;

        switch(choice)
        {

            case 1: cout<<"\nENTER NUMBER OF STUDENTS RECORD TO BE
STORED:";
                    cin>>n;

                    for(i=p;i<n+p;i++)
                        b.getdata(i);

                    p=n+p;
                    break;

            case 2: p=b.deleterecord(p);
                    break;

            case 3:
                    b.display(p);

                    break;

            case 4: b.searchrecord(p,"SEARCH");

                    break;

            case 5: b.modify(p);
```

```
        break;
    case 6: exit(0);

    default : cout<<"\nPLEASE ENTER VALID CHOICE\n";
}
}while(1);

}
```

## files.h

```
#include<iostream>
using namespace std;

class stu
{
    char *name;
    int *roll_no;
    int *marks;
    int flag1,flag2;

    public:

    stu()
    {
        name= new char[20];
        roll_no= new int;
        marks=new int;

        int getdata(int);
        int deleterecord(int p);
        int searchrecord(int p,string l);
        int modify(int p);
        int display(int p);
    };
};
```

## files.cpp

```
#include<iostream>
#include"file.h"
#include<string.h>
#include<fstream>

using namespace std;

int stu::getdata(int i)
{
    ofstream fin;
    fin.open ("example.cpp", ios::out | ios::app | ios::binary);

    cout<<"\nENTER YOUR NAME"<<" "<<i+1<<"\n";
    cin>>name;
    fin<<name<<" ";
    cout<<"\nENTER YOUR ROLL NO"<<" "<<i+1<<"\n";
    cin>>*roll_no;
    fin<<*roll_no<<" ";
    cout<<"\n";
    cout<<"\nENTER YOUR MARKS"<<" "<<i+1<<"\n";
    cin>>*marks;
    fin<<*marks<<"\n";
    cout<<"\n\n";
    fin.close();

    return 0;
}

int stu::display(int p)
{
    char name[100];
    int roll_no;
    int marks,i;
    ifstream fout;
    fout.open("example.cpp");
    for(i=0;i<p;i++)
    {
        cout<<"\nRECORD NO "<<i+1;
        fout>>name>>roll_no>>marks;
        cout<<"\nNAME:"<<name<<"\n";
        cout<<"ROLL NO:"<<roll_no<<"\n";
        cout<<"MARKS:"<<marks<<"\n";
        cout<<"\n\n";
    }

    fout.close();
    return 0;
}
```

```

int stu::modify(int p)
{

    int choice,roll_no,marks,i;
    char name[25];
    ofstream fin;
    fin.open ("example1.cpp", ios::out | ios::app | ios::binary);
    ifstream fout;
    fout.open("example.cpp");
    cout<<"\nENTER RECORD NUMBER TO MODIFY:";
    cin>>choice;
    for(i=0;i<p;i++)
    {
        if(i==choice-1)
        {

            cout<<"\nENTER YOUR NAME"<<" "<<i+1<<"\n";
            cin>>name;
            cout<<"ENTER YOUR ROLL NO"<<" "<<i+1<<"\n";
            cin>>roll_no;
            cout<<"ENTER YOUR MARKS"<<" "<<i+1<<"\n";
            cin>>marks;
            fin<<name<<" "<<roll_no<<" "<<marks<<"\n";
            fout>>name>>roll_no>>marks;
        }
        else
        {
            fout>>name>>roll_no>>marks;
            fin<<name<<" "<<roll_no<<" "<<marks<<"\n";
        }
    }
    fin.close();
    fout.close();
    remove("example.cpp");
    rename("example1.cpp","example.cpp");

return 0;

}

int stu::searchrecord(int p,string l)
{
    int i;
    char sname[25];
    char name[25];
    int roll, marks;
    cout<<"\nENTER NAME TO BE "<<l<<"\n";
    cin>>sname;
    ifstream fout;
    fout.open("example.cpp");
    for(i=0;i<p;i++)

```

```

        {
            fout>>name>>roll>>marks;
            if(strcmp(name,sname)==0)
            {
                cout<<"RECORD FOUND\n\n\n";
                cout<<"\nNAME:"<<name<<"\n";
                cout<<"ROLL NO:"<<roll<<"\n";
                cout<<"MARKS:"<<marks<<"\n";
                return i;
            }
        }

        cout<<"RECORD NOT FOUND\n\n\n";
        fout.close();
        return -1;
    }

int stu::deleterecord(int p)
{
    ofstream fin;
    fin.open ("example1.cpp", ios::out | ios::app | ios::binary);
    ifstream fout;
    fout.open("example.cpp");
    int line,i;
    char name[20];
    int roll,marks;
    int temp;

    printf("\nENTER RECORD NUMBER TO BE DELETE\n");
    scanf("%d",&line);
    temp=p;
    for(i=0;i<temp;i++)
    {

        if(i==line-1)
        {
            p=p-1;
            fout>>name>>roll>>marks;
        }
        else

        {
            fout>>name>>roll>>marks;
            fin<<name<<" "<<roll<<" "<<marks<<"\n";
        }
    }
    fin.close();
    fout.close();
    remove("example.cpp");
    rename("example1.cpp","example.cpp");

    return p; }

```