

CHANDIGARH UNIVERSITY

UIC

OOPs LAB PRACTICAL

Practical No. – 10

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Group :- II

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Practical 10)

Write a program to store the information of about 5 students in a file and read the contents and print them on screen.

Ans)

Code :-

```
#include <iostream>

#include<fstream>

using namespace std;

class student{
    int roll,std;    //private data members
    char name[20];
    float marks;
public:
    void get(){    //fucntion to get input
        cout<<"Enter Name of student: ";
        cin>>name;
        cout<<endl<<"Enter Roll no: ";
        cin>>roll;
        cout<<endl<<"Enter class: ";
        cin>>std;
        cout<<endl<<"Enter total marks obtained: ";
        cin>>marks;
        cout<<endl;
    }
    void display(){    //to display informations
        cout<<endl<<"Displaying Student Details: "<<endl;
        cout<<endl<<"Name: "<<name<<endl<<"Roll: "<<roll<<endl<<"Class: "<<std<<endl<<"Marks
        Obtained: "<<marks<<endl;
    }
};
```

```

int main() {

    fstream file;

    int i;

    file.open("E:\BCA College files\2nd sem\OOPs\file4.txt", ios :: out); // open file for writing
    cout << "\nWriting Student information to the file :- " << endl;
    cout << "\nEnter 5 students Details to the File :- " << endl;

    student s[5]; //array of object created

    for(i=0;i<5;i++){ //for getting inputs from user
        s[i].get();
        file.write((char *)&s[i], sizeof(s[i]));
    }

    file.close(); //closing file

    file.open("E:\BCA College files\2nd sem\OOPs\file4.txt", ios :: in); // open file for reading
    cout << "\nReading Student information to the file :- " << endl;

    for(i=0;i<5;i++){ //for displaying data
        file.read((char *)&s[i], sizeof(s[i]));
        s[i].display();
    }

    file.close(); //closing the file

    return 0;
}

```

OUTPUT:-

```
C:\Users\hp\Desktop\CPP\file handling.exe

Writing Student information to the file :-
Enter 5 students Details to the File :-
Enter Name of student: Amar
Enter Roll no: 1129
Enter class: 1
Enter total marks obtained: 225
Enter Name of student: Prabhat
Enter Roll no: 1172
Enter class: 1
Enter total marks obtained: 265

Reading Student information to the file :-
Displaying Student Details:
Name: Amar
Roll: 1129
Class: 1
Marks Obtained: 225
Displaying Student Details:
Name: Prabhat
Roll: 1172
Class: 1
Marks Obtained: 265
-----
Process exited after 43.42 seconds with return value 0
Press any key to continue . . .
```

Screenshot saved
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