
OBJECT ORIENTED PROGRAMMING LABORATORY LAB ASSIGNMENT 4

Problem Statement:

Write a C++ program that creates an output file, writes information to it, closes the file and open it again as an input file and read the information from the file.

Main Program

```
#include <iostream>
#include <fstream>
using namespace std;
class Student {
private:
  string name;
  int rollno;
public:
  void add info() {
     fstream fs;
     fs.open("sample.txt", ios::app);
     if (!fs) {
        cout << "File creation failed\n";</pre>
     } else {
        cout << "Enter name of student: ";</pre>
        cin.ignore();
        getline(cin, name);
        cout << "Enter roll no: ";</pre>
        cin >> rollno;
        fs << name << " " << rollno << "\n";
        fs.close(); // Close file
  void display() {
     fstream fs;
     fs.open("sample.txt", ios::in); // Open file in input mode
     if (!fs) {
        cout << "No such file\n";</pre>
     } else {
        while (fs >> name >> rollno) { // Read name and roll no
          cout << name << " " << rollno << "\n";
        fs.close();
```

```
int main() {
  Student s1;
  int ch;
  do {
    cout << "\nStudent database:";</pre>
    cout << "\nMenu";</pre>
    cout << "\n1. Add student Information";</pre>
    cout << "\n2. Display student Information";</pre>
    cout << "\n3. Exit";
    cout << "\nEnter your choice: ";</pre>
    cin >> ch;
    switch (ch) {
       case 1:
         s1.add_info(); // Add the info
         break:
       case 2:
         s1.display(); // Display the info
         break;
       case 3:
         cout << "Exit!!\n";</pre>
         break;
       default:
         cout << "Invalid choice! Please try again.\n";</pre>
  \} while (ch != 3);
  return 0;
            Student database:
Menu
1. Add student Information
2. Display student Information
3. Exit
Enter your choice: 1
```

Enter name of student: Anushka Patil Enter roll no: 25	
Student database: Menu 1. Add student Information 2. Display student Information 3. Exit Enter your choice:2 Anushka Patil 25	
Student database: Menu 1. Add student Information 2. Display student Information 3. Exit Enter your choice: 3 Exit!!	
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