## PROGRAM-28

**Aim:** Write a program to read the class object of student info such as name, age, sex, height and weight from the keyboard and to store them on a specified file using read() and write() functions. Again, the same file is opened for reading and displaying the contents of the file on the screen.

## Code:

```
#include <iostream>
#include <fstream>
#include <cstring>
using namespace std;
class Student {
public:
  char name[50];
  int age;
  char sex;
  float height;
  float weight;
  void read() {
    cout << "Enter student name: ";
    cin.getline(name, sizeof(name));
    cout << "Enter student age: ";
    cin >> age;
    cin.ignore();
    cout << "Enter student sex (M/F): ";
    cin >> sex;
    cin.ignore();
    cout << "Enter student height (in meters): ";
    cin >> height;
    cout << "Enter student weight (in kg): ";
    cin >> weight;
  void write(ofstream &ofs) {
    ofs.write(reinterpret_cast<char *>(this), sizeof(Student));
  void read(ifstream &ifs) {
    ifs.read(reinterpret cast<char *>(this), sizeof(Student));
  }
  void display() {
    cout << "Student Name: " << name << endl;
```

```
cout << "Age: " << age << endl;
    cout << "Sex: " << sex << endl;
    cout << "Height: " << height << " meters" << endl;</pre>
    cout << "Weight: " << weight << " kg" << endl;
    cout << "-----" << endl;
  }
};
int main() {
  string fileName = "student_info.dat";
  ofstream outputFile(fileName, ios::binary);
  if (!outputFile.is open()) {
    cerr << "Error opening the file for writing." << endl;
    return 1;
  Student student;
  student.read();
  student.write(outputFile);
  outputFile.close();
  ifstream inputFile(fileName, ios::binary);
  if (!inputFile.is_open()) {
    cerr << "Error opening the file for reading." << endl;
    return 1;
  }
  Student studentFromFile;
  studentFromFile.read(inputFile);
  studentFromFile.display();
  inputFile.close();
  return 0;
}
```