Serialization

- Serialization is a process of string and retrieving state of an object
- · Class must have a default constructor

```
class Student
private:
    string name;
    int roll;
    string branch;
public:
    Student(){}
    Student(string n, int r, string b)
        name=n;
        roll=r;
        branch=b;
    friend ofstream & operator<<(ofstream &ofs,Student s);</pre>
    friend ifstream & operator>>(ifstream &ifs,Student &s);
    friend ostream & operator<<(ostream &os,Student &s);</pre>
};
ofstream & operator<<(ofstream &ofs,Student s)
    ofs<<s.name<<endl;
    ofs<<s.roll<<endl;
    ofs<<s.branch<<endl;
    return ofs;
ifstream & operator>>(ifstream &ifs,Student &s)
    ifs>>s.name;
    ifs>>s.roll;
    ifs>>s.branch;
    return ifs;
ostream & operator<<(ostream &os,Student &s)</pre>
    os<<"Name "<<s.name<<endl;
    os<<"Roll "<<s roll<<endl;
    os<<"Branch "<<s.branch<<endl;
    return os;
}
int main()
    ofstream ofs("Test.txt");
    Student s1("John", 10, "CS");
    ofs<<s1;
    ofs.close();
    Student s2;
    ifstream ifs("Test.txt");
    ifs>>s1;
    cout<<s1;
}
```