**Practical no.-**20

**Program no.-** 01

**Title:** Program to write and read object in a file using read and write function.

**Roll No.:** 76 **Batch-** C

**Code:**

#include<iostream>

#include<fstream>

using namespace std;

class student

{

private:

int roll\_no;

char name[30];

char course[25];

public:

void getdata(void)

{

cout<<"Enter Roll No: " ;cin>>roll\_no;

cout<<"Enter Name: ";

fflush(stdin);

gets(name);

cout<<"Enter Course: ";

fflush(stdin);

gets(course);

}

void displayData(void)

{

cout<<"Roll No: "<<roll\_no<<"\nName: "<<name;

cout<<"\nCourse: "<<course<<endl;

}

};

//main program

int main()

{

student st; //create object

ofstream fout; //output stream object for file

//open file in write mode

fout.open("List.dat",ios::out);

if(!fout)

{

cout<<"Error in creating file.."<<endl;

return 0;

}

cout<<"\nfile created successfully.."<<endl;

//write into file

st.getdata(); //read from user

fout.write((char\*)&st,sizeof(st)); //write object into file

fout.close(); //close file

cout<<"\nFile saved and closed successfully.."<<endl;

//Reopen file in inputr mode and read data

ifstream fin; //input stream object for a file

//again open a file in read mode

fin.open("List.dat",ios::in);

if(!fin)

{

cout<<"Error in opening file..";

}

//read data from file

fin.read((char\*)&st,sizeof(st));

//display data on monitor

cout<<"Contents of file:\n";

st.displayData();

//close a file

fin.close();

return 0;

}

**OUTPUT-**

file created successfully..

Enter Roll No: 15

Enter Name: Aditya

Enter Course: CM

File saved and closed successfully..

Contents of file:

Roll No: 15

Name: Aditya

Course: CM

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