**Practical No - 02 (Group A)**

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Div: A

Batch: A2

Problem Statement :

Develop and oriented program in c++ to create a data base of student information system containing following information Name, Roll no, class , Div , DOB , Blood Group, contact address , mobile no , driving licence no , and other construct data base with sutaible member function for initializing and destroying data with constructor , default constructor ,copy constructor ,destructor ,static member function , friend class , this pointer, inline code and dynamic memory allocation operator new and delete as well as exception handling.

Program code :

#include<iostream>

using namespace std;

class studentInfo {

private :

string name;

int roll\_no;

string Class;

char div;

string DOB;

string blood\_group;

long contact;

string address;

string driving\_licensce;

string other;

public :

static int count;

static void display() {

count++;

cout<<"Count is : "<<count<<endl;

}

studentInfo() {

name = " ";

roll\_no =0;

Class = " ";

div = ' ';

DOB = " ";

blood\_group = " ";

contact = 0;

address = " ";

driving\_licensce = " ";

other = " ";

}

~studentInfo() {

cout<<"Destructor is invoked";

}

friend class G;

friend class D;

};

int studentInfo :: count = 0;

class G {

public :

void getdata(studentInfo &r) {

cout<<"Enter name : ";

getline(cin,r.name);

cout<<"Enter roll no : ";

cin>>r.roll\_no;

cout<<"Enter Class : ";

cin>>r.Class;

cout<<"Enter div : ";

cin>>r.div;

cout<<"Enter DOB : ";

cin>>r.DOB;

cout<<"Enter blood group : ";

cin>>r.blood\_group;

cout<<"Enter contact : ";

cin>>r.contact;

cout<<"Enter address : ";

cin>>r.address;

cout<<"Enter driving licensce no : ";

cin>>r.driving\_licensce;

cout<<"Enter other info : ";

cin>>r.other;

}

void displaydata(studentInfo &t) {

cout<<"Name is : "<<t.name<<endl;

cout<<"Roll no is : "<<t.roll\_no<<endl;

cout<<"Class is : "<<t.Class<<endl;

cout<<"Div is : "<<t.div<<endl;

cout<<"DOB is : "<<t.DOB<<endl;

cout<<"Bloog group is : "<<t.blood\_group<<endl;

cout<<"Contact is : "<<t.contact<<endl;

cout<<"Address is : "<<t.address<<endl;

cout<<"Driving Licensce no. is : "<<t.driving\_licensce<<endl;

cout<<"other info : "<<t.other<<endl;

}

};

int main() {

studentInfo s;

G all;

all.getdata(s);

all.displaydata(s);

s.display();

int \*age = new int(25);

cout<<"integer age is : "<<\*age<<endl;

delete age;

return 0;

}

Output :

