

**ASSIGNMENT NO 3**

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**STUDENT FILE:**

**#include<iostream>**

**#include<fstream>**

**using namespace std;**

**class student{**

**private:**

**int sapid;**

**int semester;**

**float cgpa;**

**string name;**

**public:**

**//null constructor**

**student(){**

**cout<<"null constructor is called:"<<endl;**

**this->sapid=0;**

**this->semester=0;**

**this->cgpa=0.0;**

**this->name=" ";**

**}**

**//parameterized constructor**

**student(int sapid,int semester,float cgpa,string name)**

**{**

**cout<<"parameterized constructor is called:";**

**this->sapid=sapid;**

**this->semester=semester;**

**this->cgpa=cgpa;**

**this->name=name;**

**}**

**//overloading of constructor**

**student(int semestrer,float cgpa)**

**{**

**this->semester=semester;**

**this->cgpa=cgpa;**

**}**

**//copy constructor**

**student (student &std)**

**{**

**sapid=std.sapid;**

**semester=std.semester;**

**cgpa=std.cgpa;**

**name=std.name;**

**}**

**void display()**

**{**

**cout<<"SAPID \n"<<sapid;**

**cout<<"SEMESTER \n"<<semester;**

**cout<<"CGPA \n"<<cgpa;**

**cout<<"NAME \n"<<name;**

**}**

**};**

**int main()**

**{**

**string line;**

**int sapid;**

**int semester;**

**float cgpa;**

**string name;**

**int opt=0;**

**cout<<"\n 1) add the student file:";**

**cout<<"\n 2) total record of student:";**

**cout<<"\n 3) exit function:";**

**cin>>opt;**

**if (opt==1){**

**m:**

**cout<<"add a menue of student :";**

**cout<<"sapid:"<<endl;**

**cin>>sapid;**

**cout<<"semester:"<<endl;**

**cin>>semester;**

**cout<<"cgpa:";**

**cin>>cgpa;**

**cout<<"name:"<<endl;**

**cin>>name;**

**goto m;**

**system("pause");**

**else (opt==2)**

**{**

**cout<<"total record of student :";**

**cout<<"sapid:"<<endl;**

**cin>>sapid;**

**cout<<"semester:"<<endl;**

**cin>>semester;**

**cout<<"cgpa:";**

**cin>>cgpa;**

**cout<<"name:"<<endl;**

**cin>>name;**

**// to write the file**

**ofstream fout;**

**fout.open("sample.txt");**

**while(fout){**

**getline(cin,line);**

**if(line=="-1")**

**{**

**break;**

**}**

**fout<<line<<endl;**

**}**

**fout.close();**

**//to read the file**

**cout<<"read all files of students:\n";**

**cin>>sapid;**

**cin>>semester;**

**cin>>cgpa;**

**cin>>name;**

**fstream fin;**

**fin.open("sample.txt");**

**while(fin>>sapid){**

**fin>>semester;**

**fin>>cgpa;**

**fin>>name;**

**student s1(sapid,semester,cgpa,name);**

**s1.display();**

**cout<<"\n\n";**

**}**

**fin.close();**

**return 0;**

**}**

**}**

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