

Lab 3.2

```
#include <bits/stdc++.h>
//parameterized constructors
using namespace std;
class Student{
    string name;
    int age;
    float cgpa;
public :
    Student();
    Student(string,int,float);
    void display();
    void getinfo();
};
Student::Student(){
    name = "";
    age = 0;
    cgpa = 0;
}
Student::Student(string n,int a = 0,float f = 0){
    name = n;
    age = a;
    cgpa = f;
}
void Student::display(){
    cout<<"Student Details\n";
    cout<<"Name : "<<name<<"\n";
    cout<<"Age : "<<age<<"\n";
    cout<<"cgpa : "<<cgpa<<"\n";
}
void Student::getinfo(){
    cout<<"Enter Student Details\n";
    cout<<"Name : "<<"\n";
    getline(cin, name);
    cout<<"Age : "<<"\n";
    cin>>age;
    cout<<"cgpa : "<<"\n";
    cin>>cgpa;
}
```

```
int main(){
    Student X;
    X.getinfo(); //calling member function
    Student Y("Joshua Higgs", 19, 9.99);
    //parameterized constructor
    X.display();
    Y.display();
    return 0;
}
```

```
C:\Users\Vincent\Code\c-cpp\SE\Labs\OOPS\{
Enter Student Details
Name :
Micheal Jones
Age :
23
cgpa :
7.74
Student Details
Name : Micheal Jones
Age : 23
cgpa : 7.74
Student Details
Name : Joshua Higgs
Age : 19
cgpa : 9.99
```