

# Communication Software Design

## Lab 04 Class

10/17/2019

Please design a class **Staff** according to the information given in “oldData.txt”. Use the code from previous lab to read in the data from the file “oldData.txt” and store each set of data into a **Staff** object/instance. You may declare a vector to store Student objects like this:

```
vector<Staff> st(3);  
st[0].name = 18 ;  
st[0].age = 18 ;  
//...
```

```
<Staff>  
  <Name> David Lee </Name>  
  <ID> 1234567 </ID>  
  <age> 38 </age>  
  <Department> CS  </Department>  
  <Salary> 100000</Salary>  
</Staff>  
<Staff>  
  <Name> Jeff Wu </Name >  
  <ID> 1234568 </ID>  
  <age> 50 </age>  
  <Department> EE </Department>  
  <Salary> 200000</Salary>  
</Staff>  
<Staff>  
  <Name> Nancy Wang </Name >  
  <ID> 1234569 </ID>  
  <age> 43 </age>  
  <Department> CS  </Department>  
  <Salary> 160000</Salary>  
</Staff>
```

oldData.txt

Finally, use the following code to print out the information you stored in the vector.

```
int main()
{
    vector<Student> v(3);
    //...your own code
    //...your own code
    cout<<"Read in Data:"<<endl;
    for(int i=0; i<v.size(); i++){
        Staff st = v[i];
        cout<<"Staff #"<< i+1<<endl;
        cout<<"Name: "<<st.getName()<<endl;
        cout<<"age: "<<st.getAge()<<endl;
        cout<<"Department:" <<st.getDepartment()<<endl;
        cout<<"Salary:" <<st.getDepartment()<<endl;
    }
}
```

Your print out messages should be the same as the following:

```
Staff #1
Name: David Lee
age: 18
Department: CS
Salary: 100000
Staff #2
Name: Jeff Wu
age: 17
Department: EE
Salary: 200000
Staff #3
Name: Nancy Wang
age: 19
Department:CS
Salary: 160000
```