

```
1 #include <iostream>
2 #include <string>
3 using namespace std;
4
5 class PersoanaAC
6 {
7 protected:
8     string m_sCnp;
9     string m_sNume;
10    string m_sAdresa;
11 public:
12    PersoanaAC();
13    PersoanaAC(string cnp, string nume, string adresa);
14    ~PersoanaAC();
15    void afisareProfil();
16    void schimbareAdresa(string adresaNoua);
17 };
18
19 class StudentAC : public PersoanaAC
20 {
21     int m_ianStudiu;
22     int m_inotaP2;
23
24 public:
25    StudentAC();
26    StudentAC(string cnp, string nume, string adresa, int anStudiu, int notaP2);
27    StudentAC(const StudentAC &);
28    ~StudentAC();
29    void afisareProfil();
30    void inscriereAnStudiu(int anStudiuNou);
31 };
32
33 PersoanaAC::PersoanaAC()
34 {
35     cout<<"constr. fara arg. PersoanaAC"<<endl;
36
37     m_sCnp = string(13, '0');
38     m_sNume = "";
39     m_sAdresa = "";
40 }
41 PersoanaAC::PersoanaAC(string cnp, string nume, string adresa)
42 {
43     cout<<"constr. cu arg. PersoanaAC"<<endl;
44
45     m_sCnp = cnp;
46     m_sNume = nume;
47     m_sAdresa = adresa;
48 }
49
50 PersoanaAC::~~PersoanaAC()
51 {
52     cout<<"destructor PersoanaAC"<<endl;
53 }
54
55 void PersoanaAC::afisareProfil()
56 {
57     cout << "Nume: " << m_sNume << " CNP: " << m_sCnp
58         << " Adresa: " << m_sAdresa << endl;
59 }
60
61 void PersoanaAC::schimbareAdresa(string adresaNoua)
62 {
63     m_sAdresa = adresaNoua;
64 }
65
66 StudentAC::StudentAC()
67 {
68     cout<<"constr. fara arg. StudentAC"<<endl;
69     m_ianStudiu = 0;
70     m_inotaP2 = 0;
71 }
72
73 StudentAC::StudentAC(string cnp, string nume, string adresa, int anStudiu, int notaP2)
74     : PersoanaAC(cnp, nume, adresa), m_ianStudiu(anStudiu), m_inotaP2(notaP2)
75 }
```

```
74 {
75     cout<<"constr. cu arg. StudentAC"<<endl;
76 }
77
78
79 StudentAC::~StudentAC()
80 {
81     cout<<"destructor StudentAC"<<endl;
82 }
83
84 StudentAC::StudentAC(const StudentAC & st):PersoanaAC(st)
85 {
86     m_ianStudiu = st.m_ianStudiu;
87     m_inotaP2 = st.m_inotaP2;
88 }
89
90 void StudentAC::afisareProfil()
91 {
92     //cout << "Nume: " << m_sNume << " CNP: " << m_sCnp
93     // << " Adresa: " << m_sAdresa << endl;
94     PersoanaAC::afisareProfil();
95     cout << "An studiu: " << m_ianStudiu << " Nota P2: " << m_inotaP2 <<endl;
96 }
97
98 void StudentAC::inscriereAnStudiu(int anStudiuNou)
99 {
100     m_ianStudiu = anStudiuNou;
101 }
102
103 int main ()
104 {
105
106     PersoanaAC p1("1234567890123","Ana","Iasi");
107     p1.afisareProfil();
108
109     StudentAC s2;
110     s2.afisareProfil();
111
112     StudentAC s1("1234567890122","Ion","Vaslui",2,10);
113     s1.schimbareAdresa("Bucuresti");
114     s1.inscriereAnStudiu(3);
115     s1.afisareProfil();
116
117     //constructor copiere
118
119     cout << "Copiere " <<endl;
120
121     StudentAC s3(s1);
122     s3.afisareProfil();
123
124     return 0;
125 }
```