

```

1 #include <iostream>
2
3 using namespace std;
4
5
6 class Student_a{
7     public:
8     int rollno;
9     string name;
10    int student_class;
11    char division;
12    string dob;
13    string aadhar;
14    string blood_group;
15    string contact_number;
16    string address;
17    string telephone_number;
18
19    void getdata(){
20        cout << "Enter the Following Details \n";
21        cout << "        Roll Number : ";
22        cin >> rollno;
23        cout << "        Name : ";
24        cin.ignore();
25        getline(cin, name);
26        cout << "        Class : ";
27        cin >> student_class;
28        cout << "        Division : ";
29        cin >> division;
30        cout << "        Date of Birth : ";
31        cin.ignore();
32        getline(cin, dob);
33        cout << "        Aadhar Number : ";
34        cin.ignore();
35        getline(cin, aadhar);
36        cout << "        Blood Group : ";
37        cin.ignore();
38        getline(cin, blood_group);
39        cout << "        Contact Number : ";
40        cin.ignore();
41        getline(cin, contact_number);
42        cout << "        Address : ";
43        cin.ignore();
44        getline(cin, address);
45        cout << "        Telephone Number : ";
46        cin.ignore();
47        getline(cin, telephone_number);
48    }
49
50    void putdata(){
51        cout << "Entered Details are : " << endl;
52        cout << "        Roll Number : " << rollno << endl;
53        cout << "        Name : " << name << endl;
54        cout << "        Class : " << student_class << endl;
55        cout << "        Division : " << division << endl;
56        cout << "        Date of Birth : " << dob << endl;
57        cout << "        Aadhar Number : " << aadhar << endl;
58        cout << "        Blood Group : " << blood_group << endl;
59        cout << "        Contact Number : " << contact_number << endl;
60        cout << "        Address : " << address << endl;
61        cout << "        Telephone Number : " << telephone_number <<
endl;
62    }
63 };
64
65 class Student_b{
66     public:
67     int rollno;
68     string name;
69     int student_class;
70     char division;
71     string dob;
72     string aadhar;
73     string blood_group;
74     string contact_number;
75     string address;
76     string telephone_number;
77
78     Student_b(){
79         cout << " > MADE WITH DEFAULT CONSTRUCTOR." << endl;
80         cout << "Enter the Following Details \n";
81         cout << "        Roll Number : ";
82         cin >> rollno;
83         cout << "        Name : ";
84         cin.ignore();
85         getline(cin, name);
86         cout << "        Class : ";
87         cin >> student_class;
88         cout << "        Division : ";
89         cin >> division;
90         cout << "        Date of Birth : ";
91         cin.ignore();
92         getline(cin, dob);
93         cout << "        Aadhar Number : ";
94         cin.ignore();
95         getline(cin, aadhar);
96         cout << "        Blood Group : ";
97         cin.ignore();
98         getline(cin, blood_group);
99         cout << "        Contact Number : ";
100        cin.ignore();
101        getline(cin, contact_number);
102        cout << "        Address : ";
103        cin.ignore();
104        getline(cin, address);
105        cout << "        Telephone Number : ";
106        cin.ignore();
107        getline(cin, telephone_number);
108    }
109
110    Student_b(int a, string b, int c, char d, string e, string f, string
g, string h, string i, string j){
111        cout << " > MADE WITH PARAMETERIZED CONSTRUCTOR" <<
endl;
112        rollno = a;
113        name = b;
114        student_class = c;
115        division = d;
116        dob = e;
117        aadhar = f;
118        blood_group = g;
119        contact_number = h;
120        address = i;
121        telephone_number = j;
122    }
123
124    Student_b(Student_b &p){
125        cout << " > MADE WITH COPY CONSTRUCTOR" <<
endl;
126        rollno = p.rollno;
127        name = p.name;
128        student_class = p.student_class;
129        division = p.division;
130        dob = p.dob;
131        aadhar = p.aadhar;
132        blood_group = p.blood_group;
133        contact_number = p.contact_number;
134        address = p.address;
135        telephone_number = p.telephone_number;
136    }
137
138    void putdata(){
139        cout << "Entered Details are : " << endl;
140        cout << "        Roll Number : " << rollno << endl;
141        cout << "        Name : " << name << endl;
142        cout << "        Class : " << student_class << endl;
143        cout << "        Division : " << division << endl;
144        cout << "        Date of Birth : " << dob << endl;
145        cout << "        Aadhar Number : " << aadhar << endl;
146        cout << "        Blood Group : " << blood_group << endl;
147        cout << "        Contact Number : " << contact_number << endl;
148        cout << "        Address : " << address << endl;
149        cout << "        Telephone Number : " << telephone_number <<
endl;
150    }
151 };
152
153
154
155 int main(){
156
157     // Q 1.a Develop an Object Oriented Program in C++ to.....
158
159     Student_a a1;
160     a1.getdata();
161     a1.putdata();
162
163     // Q 1.b Modify the Program in Q 1.a to.....
164
165     Student_b b1;
166     Student_b b2(43, "Jaynam Modi", 9, 'C', "01/01/2001", "759362842648",
"B+", "7493749274", "Kothrud, Pune", "749282");
167     Student_b b3(b2);
168 }

```