#include <iostream>

#include <string>

Using namespace std;

Class Person {

Protected:

String name;

Public:

Person(string n) {

Name = n;

}

Void setName(string n) {

Name = n;

}

String getName() {

Return name;

}

};

Class Student : public Person {

Private:

Int studentID;

Public:

Student(string n, int id) : Person(n) {

studentID = id;

}

Int getStudentID() {

Return studentID;

}

};

Class GraduateStudent : public Student {

Private:

String researchTopic;

Public:

GraduateStudent(string n, int id, string topic) : Student(n, id) {

researchTopic = topic;

}

String getResearchTopic() {

Return researchTopic;

}

};

Int main() {

Student john(“John”, 1001);

GraduateStudent alice(“Alice”, 2001, “Artificial Intelligence”);

Cout << “Name: “ << john.getName() << endl;

Cout << “Student ID: “ << john.getStudentID() << endl;

Cout << “Name: “ << alice.getName() << endl;

Cout << “Student ID: “ << alice.getStudentID() << endl;

Cout << “Research Topic: “ << alice.getResearchTopic() << endl;

Return 0;

}