

```
public class Person {
}

class Worker extends Person {
}

class Student extends Person {
}

class HighStudent extends Student {
}

class MiddleStudent extends Student {
}
```

```
public class Applicant<T> {
    public T kind;

    public Applicant(T kind) {
        this.kind = kind;
    }
}
```

```
public class Course {
    //모든 사람이면 등록 가능
    public static void registerCourse1(Applicant<?> applicant) {
        System.out.println(applicant.kind.getClass().getSimpleName() +
            "이(가) Course1을 등록함");
    }

    //학생만 등록 가능
    public static void registerCourse2(Applicant<? extends Student>
        applicant) {
        System.out.println(applicant.kind.getClass().getSimpleName() +
            "이(가) Course2를 등록함");
    }

    //직장인 및 일반인만 등록 가능
    public static void registerCourse3(Applicant<? super Worker> applicant) {
        System.out.println(applicant.kind.getClass().getSimpleName() +
            "이(가) Course3을 등록함");
    }
}
```

#### 실행 결과

```
Person이(가) Course1을 등록함
Worker이(가) Course1을 등록함
Student이(가) Course1을 등록함
HighStudent이(가) Course1을 등록함
MiddleStudent이(가) Course1을 등록함

Student이(가) Course2를 등록함
HighStudent이(가) Course2를 등록함
MiddleStudent이(가) Course2를 등록함

Person이(가) Course3을 등록함
Worker이(가) Course3을 등록함
```

```
public class GenericExample {
    public static void main(String[] args) {
        //모든 사람이 신청 가능
        Course.registerCourse1(new Applicant<Person>(new Person()));
        Course.registerCourse1(new Applicant<Worker>(new Worker()));
        Course.registerCourse1(new Applicant<Student>(new Student()));
        Course.registerCourse1(new Applicant<HighStudent>(new HighStudent()));
        Course.registerCourse1(new Applicant<MiddleStudent>(new MiddleStudent()));
        System.out.println();

        //학생만 신청 가능
        //Course.registerCourse2(new Applicant<Person>(new Person())); (x)
        //Course.registerCourse2(new Applicant<Worker>(new Worker())); (x)
        Course.registerCourse2(new Applicant<Student>(new Student()));
        Course.registerCourse2(new Applicant<HighStudent>(new HighStudent()));
        Course.registerCourse2(new Applicant<MiddleStudent>(new MiddleStudent()));
        System.out.println();

        //직장인 및 일반인만 신청 가능
        Course.registerCourse3(new Applicant<Person>(new Person()));
        Course.registerCourse3(new Applicant<Worker>(new Worker()));
        //Course.registerCourse3(new Applicant<Student>(new Student())); (x)
        //Course.registerCourse3(new Applicant<HighStudent>(new HighStudent())); (x)
        //Course.registerCourse3(new Applicant<MiddleStudent>(new
            MiddleStudent())); (x)
    }
}
```