1. import java.lang.annotation.\*;

import java.lang.reflect.\*;

@Retention(RetentionPolicy.RUNTIME)

@Target(ElementType.METHOD)

@interface Test

{

String str();

}

class Student

{

@Test(str="test Annotation")

public void testCase(){}

}

public class TestAnnotation {

public static void main(String[] args) throws Exception

{

Student s=new Student();

Method m=s.getClass().getMethod("testCase");

Test ts=m.getAnnotation(Test.class);

System.out.println(ts.str());

}

}

2. import java.lang.annotation.Documented;

import java.lang.annotation.Retention;

import java.lang.annotation.RetentionPolicy;

import java.lang.reflect.Method;

@Documented

@Retention(RetentionPolicy.RUNTIME)

@interface info

{

int ID();

String name();

String superviser();

String date();

String time();

int version();

}

public class AuthorEx {

public static void main(String[] args) throws Exception

// TODO Auto-generated method stub

{

ExampleAuthor obj=new ExampleAuthor();

Method m=obj.getClass().getMethod("display");

info in=m.getAnnotation(info.class);

System.out.println(in.ID());

System.out.println(in.name());

System.out.println(in.superviser());

System.out.println(in.date());

System.out.println(in.time());

System.out.println(in.version());

}

}

public class ExampleAuthor {

@info(ID = 27, name = "Swapna", superviser = "Abc",date="17/01/2022",time="8:45:45 hrs",version=8)

public void display()

{

System.out.println("hai thi is authors information");

System.out.println();

}

}

3. package org.generics.app;

import java.lang.annotation.ElementType;

import java.lang.annotation.Retention;

import java.lang.annotation.RetentionPolicy;

import java.lang.annotation.Target;

@Target(value = ElementType.METHOD)

@Retention(value = RetentionPolicy.RUNTIME)

@interface Execute

{

int Sequence();

}

public class ExcuteAnnotationExam {

@Execute(Sequence=2)

public void method1()

{

System.out.println("This is method 1");

}

@Execute(Sequence=1)

public void method2()

{

System.out.println("This is method 2");

}

@Execute(Sequence=3)

public void method3()

{

System.out.println("This is method 3");

}

}