1.ANNOTATION PROGRAM

package anno;

import java.lang.annotation.ElementType;

import java.lang.annotation.Retention;

import java.lang.annotation.RetentionPolicy;

import java.lang.annotation.Target;

import java.lang.annotation.\*;

import java.lang.reflect.\*;

@Target(ElementType.METHOD)

@Retention(RetentionPolicy.RUNTIME)

@interface Test{

String TestCase();

}

class test1{

@Test(TestCase = "This is just a test case for Annotation")

public void sayHello()

{

System.out.println("hello annotation");

}

}

public class annaOne {

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

test1 t = new test1();

Method d = t.getClass().getMethod("sayHello");

Annotation ann = d.getAnnotation(Test.class);

Test ts = (Test)ann;

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

}}

2.program

package anno;

import java.lang.annotation.ElementType;

import java.lang.annotation.Retention;

import java.lang.annotation.RetentionPolicy;

import java.lang.annotation.Target;

import java.lang.annotation.Annotation;

@Target(ElementType.TYPE)

@Retention (RetentionPolicy.RUNTIME)

@interface Info {

int AuthorID () default 1;

String Author() default "Glenn";

String Supervisor() default "raj";

String Date() default "01/11/2021";

String TIme() default "11:11";

int Version() default 10;

String Description() default "This is just an assignment on annotations";

}

@Info ()

class myclass{

}

public class annaTwo {

public static void main(String[] args) {

myclass ns = new myclass();

Class f = ns.getClass();

Annotation annn = f.getAnnotation(Info.class);

Info i = (Info)annn;

System.out.println("AuthorID:"+i.AuthorID());

System.out.println("Author:"+i.Author());

System.out.println("Supervisor:"+i.Supervisor());

System.out.println("Date:"+i.Date());

System.out.println("Time:"+i.TIme());

System.out.println("Version:"+i.Version());

System.out.println("Description:"+i.Description());

}

}

3.program annotations

**package** anno;

**import** java.lang.annotation.ElementType;

**import** java.lang.annotation.Retention;

**import** java.lang.annotation.RetentionPolicy;

**import** java.lang.annotation.Target;

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

**import** java.lang.reflect.\*;

@Target(ElementType.***METHOD***)

@Retention(RetentionPolicy.***RUNTIME***)

**@interface** Execute{

**int** Sequence() ;

}

**class** MyClass1{

@Execute(Sequence=2)

**public** **void** myMethod1()

{

System.***out***.println("In method1 giving priority to sequence 2");

}

@Execute(Sequence=1)

**public** **void** myMethod2()

{

System.***out***.println("In method2 giving priority to sequence 1");

}

@Execute(Sequence=3)

**public** **void** myMetho31()

{

System.***out***.println("In method3 giving priority to sequence 3");

}

}

**public** **class** annaThree {

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

MyClass1 mc = **new** MyClass1();

Method e = mc.getClass().getMethod("myMethod1");

Annotation ann = e.getAnnotation(Execute.**class**);

Execute ts = (Execute)ann;

System.***out***.println( ts.Sequence());

}

}