JAVA ANNOTATION ASSIGNMENT 7

1)

**@interface** test

{

}

**class** method

{

@test

**void** method()

{

System.***out***.println("this is a test case");

}

}

**public** **class** annotation1

{

**public** **static** **void** main(String arg[])

{

method m1 = **new** method();

m1.method();

}

}

2)

**import** java.lang.annotation.Annotation;

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

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

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

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

@Target({ElementType.***TYPE***,ElementType.***METHOD***})

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

**@interface** Info

{

String name();

String Date();

}

@Info(name = "nikita", Date = "30-05-1999")

**class** Developer

{

**int** Id;

String Date;

String Time;

**int** Version;

**public** Developer(**int** id, String date, String time, **int** version)

{

**super**();

Id = id;

Date = date;

Time = time;

Version = version;

}

}

**public** **class** annotation2

{

**public** **static** **void** main(String arg[])

{

Developer d1 = **new** Developer(1, "12-07-2005", "11:09", 6);

Class c=d1.getClass();

Annotation on=c.getAnnotation(Info.**class**);

Info s = (Info) on;

System.***out***.println(s.name()+ " " +s.Date());

}

}

3)

**import** java.lang.annotation.Annotation;

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

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

**import** java.lang.reflect.InvocationTargetException;

**import** java.lang.reflect.Method;

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

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

@Target({ElementType.***TYPE***,ElementType.***METHOD***})

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

**@ interface** execute

{

**int** sequence();

}

**public** **class** annotation3

{

@execute(sequence = 1)

**public** **void** MyMethod1()

{

System.***out***.println("method 1");

}

@execute(sequence = 2)

**public** **void** MyMethod2()

{

System.***out***.println("method 2");

}

@execute(sequence = 3)

**public** **void** MyMethod3()

{

System.***out***.println("method 3");

}

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

{

System.***out***.println("call method by reflection");

annotation3 an3 = **new** annotation3();

Class<?> classObj = an3.getClass();

Method MyMethod1 = classObj.getDeclaredMethod("MyMethod1");

Method MyMethod2 = classObj.getDeclaredMethod("MyMethod2", String.**class**);

Method MyMethod3 = classObj.getDeclaredMethod("MyMethod3", String.**class**);

**try**

{

MyMethod1.invoke(an3);

MyMethod2.invoke(an3, "");

MyMethod3.invoke(an3, "");

}

**catch**(InvocationTargetException ex)

{

System.***out***.println(ex.getCause());

}

}

}