Creating Custom Annotations

Question 2:

package Annotations;

import java.lang.annotation.Annotation;

import java.lang.annotation.ElementType;

import java.lang.annotation.Target;

import java.lang.reflect.Method;

import java.lang.annotation.Retention;

import java.lang.annotation.RetentionPolicy;

@Target(ElementType.TYPE)

@Retention(RetentionPolicy.RUNTIME)

@interface info{

int id();

String date();

String time();

double version();

}

@Target(ElementType.METHOD)

@Retention(RetentionPolicy.RUNTIME)

@interface MyAnnotation{

int value();

}

//To show use of annotation on class

@info(id=10,date="07-11-2021",time="12:31 AM",version=11.2)

class Information{

String name;

int age;

public Information(String name, int age) {

this.name = name;

this.age = age;

}

}

//To show the use of annotation on method

class Hello{

@MyAnnotation(value=10)

public void sayHello() {

System.out.println("hello");

}

}

public class CreateAnnotation {

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

Information obj=new Information("mir", 21);

Class c=obj.getClass();

Annotation an=c.getAnnotation(info.class);

info i=(info)an;

System.out.println(i.id());

Hello h=new Hello();

Method m=h.getClass().getMethod("sayHello");

MyAnnotation man=m.getAnnotation(MyAnnotation.class);

System.out.println("value is: "+man.value());

}

}