Jb0160r Review: Hello World*

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Abstract

This module contains review questions and answers keyed to the module titled Jb0160: Java OOP: Hello World.

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2 Preface

This module contains review questions and answers keyed to the module titled Jb0160: Java OOP: Hello World [1] .

The questions and the answers are connected by hyperlinks to make it easy for you to navigate from the question to the answer and back again.

3 Questions

3.1 Question 1 .

True or false? Applications are designed to be downloaded and executed on-line under control of a web browser, while applets are designed to be executed in a stand-alone mode from the command line.

Answer 1 (p. 6)

3.2 Question 2

True or false? All applications and applets written in Java require a **main** method.

Answer 2 (p. 6)

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[1] http://cnx.org/content/m45143

3.3 Question 3

Explain the relationship between the name of the class file for a Java application and the location of the **main** method in the application.

Answer 3 (p. 6)

3.4 Question 4

Explain how you cause a method to be a *class* method in Java.

Answer 4 (p. 6)

3.5 Question 5

True or false? *Class* methods can be called without the requirement to instantiate an object of the class:

Answer 5 (p. 6)

3.6 Question 6

Write the source code for a Java application that will display your name and address on the standard output device. Show the command-line statement that would be required to execute a compiled version of your application.

Answer 6 (p. 5)

3.7 Question 7

Show the three styles of comment indicators that are supported by Java.

Answer 7 (p. 5)

3.8 Question 8

True or false? Java allows free-standing methods outside of a class definition?

Answer 8 (p. 5)

3.9 Question 9

What is the relationship between the name of the *controlling class* in an application and the names of the files that comprise that application.

Answer 9 (p. 5)

3.10 Question 10

What is the relationship between the number of classes in an application and the number of separate files with the ***class*** extension that go to make up that application? How does this change when all the classes are defined in the same source file?

Answer 10 (p. 5)

3.11 Question 11

True or false? ***Class*** methods in Java can only be called relative to a specific object.

Answer 11 (p. 5)

3.12 Question 12

Write the signature line for the main method in a Java application.
Answer 12 (p. 4)

3.13 Question 13

Write a Java application that will display your name on the screen.
Answer 13 (p. 4)

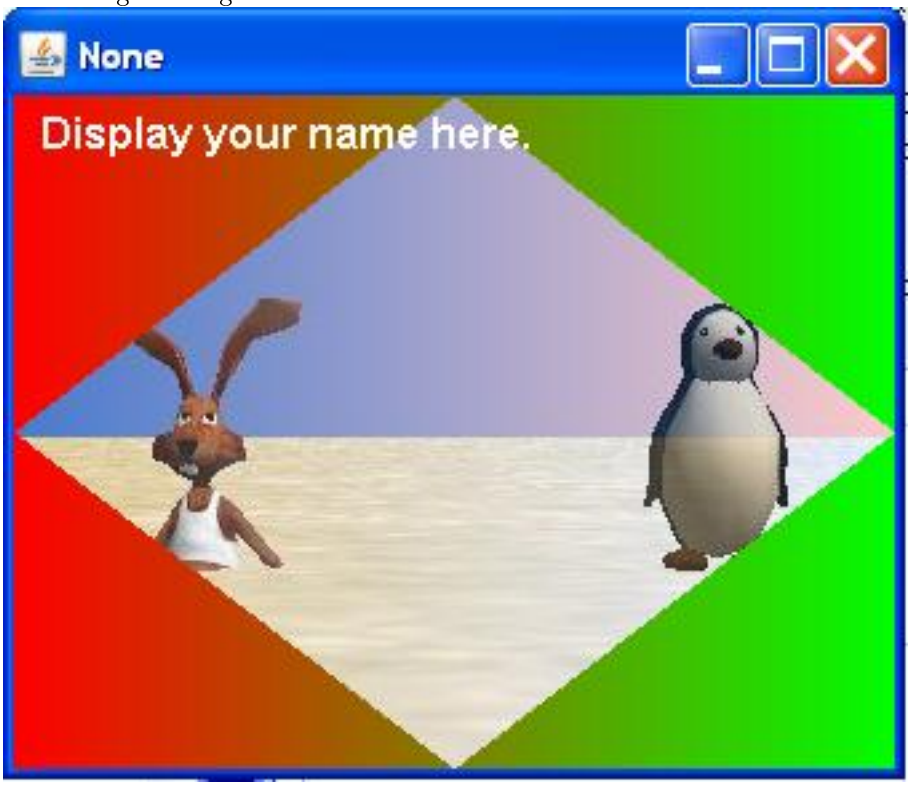
4 Listings

- Listing 1 (p. 4) . Listing for Answer 13.
- Listing 2 (p. 5) . Listing for Answer 7.
- Listing 3 (p. 5) . Listing for Answer 6.

What is the meaning of the following two images?

This image was inserted here simply to insert some space between the questions and the answers to keep them from being visible on the screen at the same time.

The image is also an example of the kinds of things that we do in my course titled ITSE 2321, Object-Oriented Programming.



This image was also inserted for the purpose of inserting space between the questions and the answers.

5 Answers

5.1 Answer 13

Listing 1: Listing for Answer 13.

```
    /*File SampProg02.java from lesson 10
Copyright 1997, R.G.Baldwin
Without reviewing the following solution, write an
application that will display your name on the screen.
*********************************************************/
class SampProg02 { //define the controlling class
  public static void main(String[] args){ //define main
    System.out.println("Dick Baldwin");
  }//end main
}//End SampProg02 class.
```

Back to Question 13 (p. 3)

5.2 Answer 12

NOTE:

```
        public static void main(String[] args)
```

Back to Question 12 (p. 3)

5.3 Answer 11

False. ***Class*** methods can be called by joining the name of the class with the name of the method using a period.

Back to Question 11 (p. 2)

5.4 Answer 10

Each class definition results in a separate ***class*** file regardless of whether or not the classes are defined in separate source files.

Back to Question 10 (p. 2)

5.5 Answer 9

One of the files must have the same name as the *controlling class* with an extension of ***class*** .

Back to Question 9 (p. 2)

5.6 Answer 8

False.

Back to Question 8 (p. 2)

5.7 Answer 7

Listing 2: Listing for Answer 7.

```
    /** special documentation comment used by the JDK javadoc tool */
/* C/C++ style multi-line comment */
// C/C++// C/C++ style single-line comment
```

Back to Question 7 (p. 2)

5.8 Answer 6

Listing 3: Listing for Answer 6.

```
    /*File Name01.java
This is a Java application that will display a
name on the standard output device.

The command required at the command line to execute this
program is:

java Name01

************************************************************/

class Name01 { //define the controlling class
  public static void main(String[] args){ //define main
    System.out.println(
```

```
    "Dick Baldwin\nAustin Community College\nAustin, TX");
  }//end main
}//End Name01 class.
```

Note that the **\n** characters in Listing 3 (p. 5) cause the output display to advance to the next line.
Back to Question 6 (p. 2)

5.9 Answer 5

True.
Back to Question 5 (p. 2)

5.10 Answer 4

Preface or precede the name of the method with the **static** keyword.
Back to Question 4 (p. 2)

5.11 Answer 3

The name of the class file must be the same as the name of the class that contains the **main** method *(sometimes called the controlling class)* .
Back to Question 3 (p. 2)

5.12 Answer 2

False. Applets do not require a **main** method while applications do require a **main** method.
Back to Question 2 (p. 1)

5.13 Answer 1

False. Applications are for stand-alone use while applets are for browsers.
Back to Question 1 (p. 1)

6 Miscellaneous

This section contains a variety of miscellaneous information.

NOTE: **Housekeeping material**

- Module name: Jb0160r Review: Hello World
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