How To Java Tutorials

Lesson 13
Java Objects

Author: Ramy Hakam

TABLE OF CONTENTS

What is an object?

A typical Java program creates many objects, which as you know, interact by invoking methods. Through these object interactions, a program can carry out various tasks, such as implementing a GUI, running an animation, or sending and receiving information over a network.

How To create Objects?

As you know, a class provides the blueprint for objects; you create an object from a class. The java program creates an object from the classes and assigns it to a variable.

Declaring an Object

The declaration of objects in Java need 3 parts

Declaration: The code set in bold are all variable declarations That associate a variable name with an object type.
Instantiation: The new keyword is a Java operator that creates The object.
Initialization: The new operator is followed by a call to a Constructor, which initializes the new object.

CODEING

```
Creating ObjectDemo
```

Using Objects in Code

Once you've created an object, you probably want to use it
For something. You may need to use the value of one of its
Fields, change one of its fields, or call one of its methods to
Perform an action.

Calling Objects fields:

Code that is outside the object's class must use an object
Reference or expression, followed by the dot (.) operator,
Followed by a simple field name, as in:

objectReference.fieldName

Calling Objects Methods

You also use an object reference to invoke an object's method.
You append the method's simple name to the object reference,
With an intervening dot operator (.). Also, you provide, within
Enclosing parentheses, any arguments to the method. If the
Method does not require any arguments, use empty
Parentheses.

CODEING

Use Object Fields/methods

Assignment

Make a simple Java application
That: provide the perimeter and area of Rectangle,Circle,Square:
1- You will have 3 Classes
"Rather than main Class"
2- Each Class has its own methods
To calculate the perimeter and area of Each shape.
3-The main Class call the others Class with specifies arguments and return the output data.
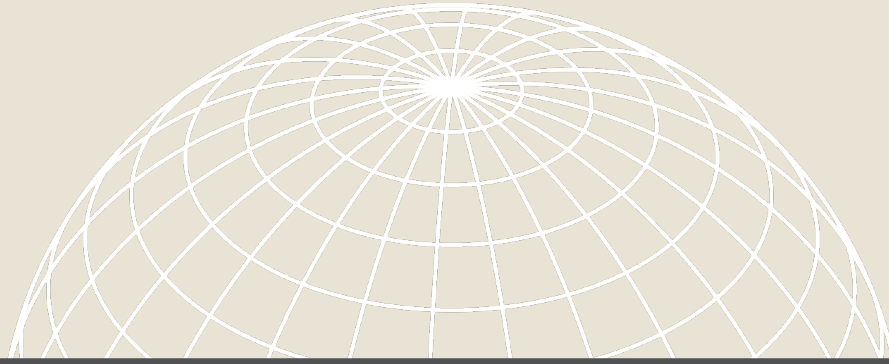
Thank You For Watching

I am still not Better, But I always try .

See You Next