

JAVA PROGRAMMING COURSE

EXERCISE

**VISUALIZE THE PROPERTIES OF
THE SYSTEM IN JAVA**

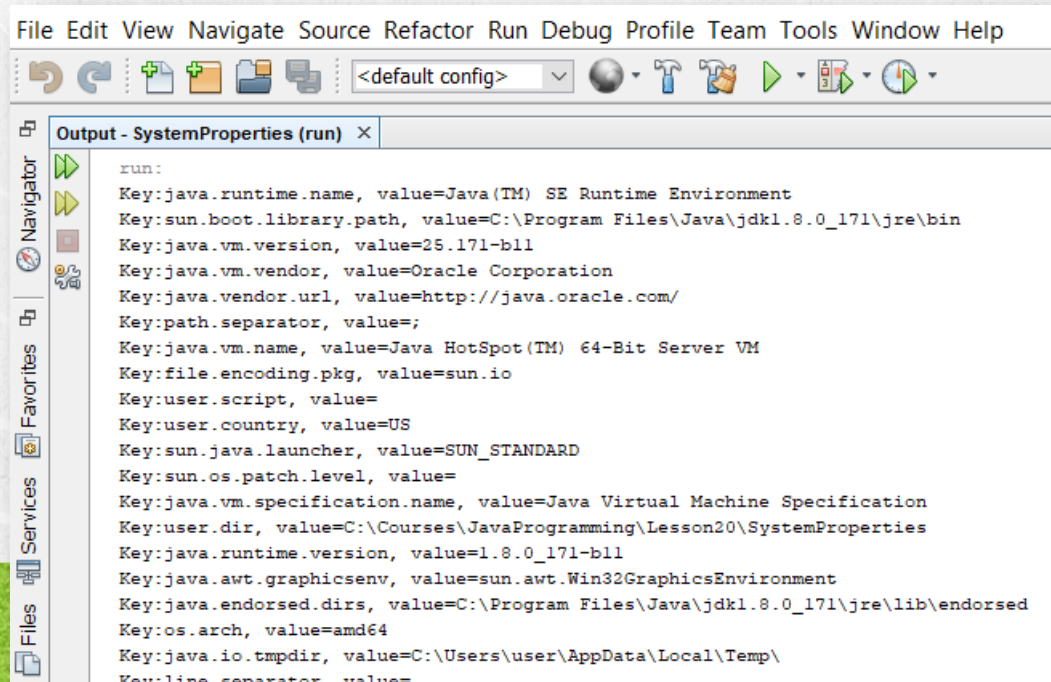


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EXERCISE OBJECTIVE

Create a program to view the system properties in Java. At the end we should observe the following:



The screenshot shows an IDE window titled "Output - SystemProperties (run)". The output displays the following system properties:

```
run:
Key:java.runtime.name, value=Java(TM) SE Runtime Environment
Key:sun.boot.library.path, value=C:\Program Files\Java\jdk1.8.0_171\jre\bin
Key:java.vm.version, value=25.171-b11
Key:java.vm.vendor, value=Oracle Corporation
Key:java.vendor.url, value=http://java.oracle.com/
Key:path.separator, value=;
Key:java.vm.name, value=Java HotSpot(TM) 64-Bit Server VM
Key:file.encoding.pkg, value=sun.io
Key:user.script, value=
Key:user.country, value=US
Key:sun.java.launcher, value=SUN_STANDARD
Key:sun.os.patch.level, value=
Key:java.vm.specification.name, value=Java Virtual Machine Specification
Key:user.dir, value=C:\Courses\JavaProgramming\Lesson20\SystemProperties
Key:java.runtime.version, value=1.8.0_171-b11
Key:java.awt.graphicsenv, value=sun.awt.Win32GraphicsEnvironment
Key:java.endorsed.dirs, value=C:\Program Files\Java\jdk1.8.0_171\jre\lib\endorsed
Key:os.arch, value=amd64
Key:java.io.tmpdir, value=C:\Users\user\AppData\Local\Temp\
Key:line.separator, value=
```

1. CREATE A NEW PROJECT

Create a new project:

New Java Application

Steps

1. Choose Project
2. **Name and Location**

Name and Location

Project Name:

Project Location:

Project Folder:

☐ Use Dedicated Folder for Storing Libraries

Libraries Folder:

Different users and projects can share the same compilation libraries (see Help for details).

☐ Create Main Class

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2. CREATE A NEW CLASS

Create a new class:

New Java Class

Steps

1. Choose File Type
2. **Name and Location**

Name and Location

Class Name:

Project:

Location:

Package:

Created File:

< Back Next > **Finish** Cancel Help

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3. MODIFY THE CODE

SystemPropertiesTest.java:

```
package test;

import java.util.*;

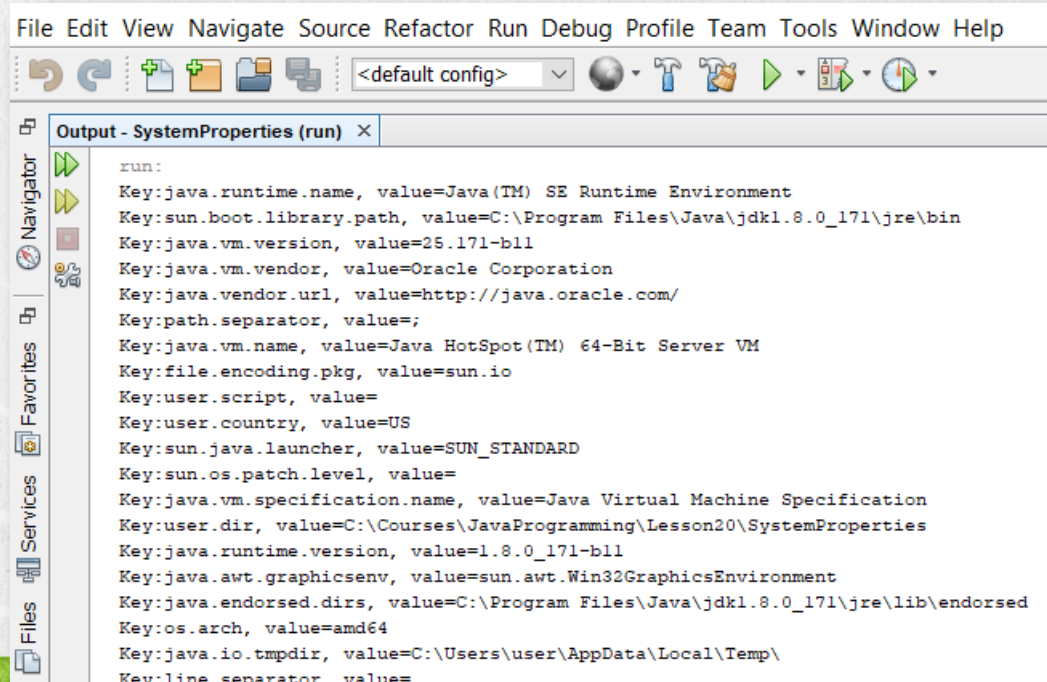
public class SystemPropertiesTest {

    public static void main(String[] args) {

        Properties properties = System.getProperties();
        Enumeration propertiesEnum = properties.propertyNames();
        while (propertiesEnum.hasMoreElements()) {
            String propertyName = (String) propertiesEnum.nextElement();
            String propertyValue = properties.getProperty(propertyName);
            System.out.println("Key:" + propertyName + ", value=" + propertyValue);
        }
    }
}
```

4. EXECUTE THE PROJECT

This is the result and may vary from PC to PC



```
run:
Key:java.runtime.name, value=Java(TM) SE Runtime Environment
Key:sun.boot.library.path, value=C:\Program Files\Java\jdk1.8.0_171\jre\bin
Key:java.vm.version, value=25.171-b11
Key:java.vm.vendor, value=Oracle Corporation
Key:java.vendor.url, value=http://java.oracle.com/
Key:path.separator, value=;
Key:java.vm.name, value=Java HotSpot(TM) 64-Bit Server VM
Key:file.encoding.pkg, value=sun.io
Key:user.script, value=
Key:user.country, value=US
Key:sun.java.launcher, value=SUN_STANDARD
Key:sun.os.patch.level, value=
Key:java.vm.specification.name, value=Java Virtual Machine Specification
Key:user.dir, value=C:\Courses\JavaProgramming\Lesson20\SystemProperties
Key:java.runtime.version, value=1.8.0_171-b11
Key:java.awt.graphicsenv, value=sun.awt.Win32GraphicsEnvironment
Key:java.endorsed.dirs, value=C:\Program Files\Java\jdk1.8.0_171\jre\lib\endorsed
Key:os.arch, value=amd64
Key:java.io.tmpdir, value=C:\Users\user\AppData\Local\Temp\
Key:line.separator, value=
```

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EXERCISE CONCLUSION

- With this exercise we have visualized the properties of the system, which can be used to make certain decisions in our code, according to the value of some variable, such as the operating system that is being used or some other variable of our interest.



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