

java.util.Properties examples

CSE219, Computer Science III

Stony Brook University

<http://www.cs.stonybrook.edu/~cse219>

java.util.Properties

- Java properties files are used to store project configuration data or settings.
 - These can be .properties files or .xml files
 - Example: config.properties

```
#Fri March 6 12:32:35 MYT 2015
database=localhost
dbuser=paul
dbpassword=password
```

Load a properties file

```
import java.util.Properties;
import java.io.InputStream;
import java.io.FileInputStream;
import java.io.IOException;

public class ReadProperties {
    public static void main(String[] args) {
        Properties prop = new Properties();
        InputStream input = null;
        try {
            input = new FileInputStream("config.properties");
            // load a properties file
            prop.load(input);
            // get the property value and print it out
            System.out.println(prop.getProperty("database"));
            System.out.println(prop.getProperty("dbuser"));
            System.out.println(prop.getProperty("dbpassword"));
        } catch (IOException ex) {
            ex.printStackTrace();
        } finally {
            if (input != null) {
                try {
                    input.close();
                } catch (IOException e) {
                    e.printStackTrace();
                }
            }
        }
    }
}
```

Write to properties file

```
import java.util.Properties;
import java.io.FileOutputStream;
import java.io.IOException;
import java.io.OutputStream;

public class WriteProperties {
    public static void main(String[] args) {
        public static void main(String[] args) {
            Properties prop = new Properties();
            OutputStream output = null;
            try {
                output = new FileOutputStream("config.properties");
                // set the properties value
                prop.setProperty("database", "localhost");
                prop.setProperty("dbuser", "mkyong");
                prop.setProperty("dbpassword", "password");
                // save properties to project root folder
                prop.store(output, null);
            } catch (IOException io) {
                io.printStackTrace();
            } finally {
                if (output != null) {
                    try {
                        output.close();
                    } catch (IOException e) {
                        e.printStackTrace();
                    }
                }
            }
        }
    }
}
```

Also in XML: properties.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE properties SYSTEM
"http://java.sun.com/dtd/properties.dtd">
<properties>
    <entry key="database">localhost</entry>
    <entry key="dbuser">paul</entry>
    <entry key="dbpassword">password</entry>
</properties>
```

In Java:

```
Properties properties = new Properties();
properties.loadFromXML(fileInput);
```