

JAVA.LANG.RUNTIME.EXEC METHOD

http://www.tutorialspoint.com/java/lang/runtime_exec_command_dir.htm

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Description

The **java.lang.Runtime.execStringCommand**, **String[]envp**, **File**dir method Executes the specified string command in a separate process with the specified environment and working directory. This is a convenience method. An invocation of the form **execCommand**, **envp**, **dir** behaves in exactly the same way as the invocation **execCmdarray**, **envp**, **dir**, where **cmdarray** is an array of all the tokens in command.

More precisely, the command string is broken into tokens using a **StringTokenizer** created by the call **new StringTokenizercommand** with no further modification of the character categories. The tokens produced by the tokenizer are then placed in the new string array **cmdarray**, in the same order.

Declaration

Following is the declaration for **java.lang.Runtime.exec** method

```
public Process exec(String command, String[] envp, File dir)
```

Parameters

- **command** -- a specified system command.
- **envp** -- array of strings, each element of which has environment variable settings in the format **name=value**, or null if the subprocess should inherit the environment of the current process.
- **dir** -- the working directory of the subprocess, or null if the subprocess should inherit the working directory of the current process.

Return Value

This method returns a new **Process** object for managing the subprocess

Exception

- **SecurityException** -- If a security manager exists and its **checkExec** method doesn't allow creation of the subprocess
- **IOException** -- If an I/O error occurs
- **NullPointerException** -- If **command** is null, or one of the elements of **envp** is null
- **IllegalArgumentException** -- If **command** is empty

Example

The following example shows the usage of **lang.Runtime.exec** method.

```
package com.tutorialspoint;

import java.io.File;

public class RuntimeDemo {

    public static void main(String[] args) {
        try {

            // print a message
            System.out.println("Executing notepad.exe...");
```

```
// create a file with the working directory we wish
File dir = new File("C:/");

// create a process and execute notepad.exe and current environment
Process process = Runtime.getRuntime().exec("notepad.exe",
null, dir);

// print another message
System.out.println("Notepad should now open.");

} catch (Exception ex) {
ex.printStackTrace();
}

}
```

Let us compile and run the above program, this will produce the following result:

```
Executing notepad.exe...
Notepad should now open.
```

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