

JAVA.LANG.RUNTIME.EXEC METHOD

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

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Description

The **java.lang.Runtime.execString[]cmdarray, String[]envp** method executes the specified command and arguments in a separate process with the specified environment. This is a convenience method. An invocation of the form **execcmdarray, envp** behaves in exactly the same way as the invocation **execcmdarray, envp, null**.

Declaration

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

```
public Process exec(String[] cmdarray, String[] envp)
```

Parameters

- **cmdarray** -- array containing the command to call and its arguments.
- **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.

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
- **IndexOutOfBoundsException** -- If cmdarray is an empty array *haslength0*

Example

This example requires a file named **example.txt** in our CLASSPATH with the following contents:

```
Hello World!
```

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

```
package com.tutorialspoint;

public class RuntimeDemo {

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

            // create a new array of 2 strings
            String[] cmdArray = new String[2];

            // first argument is the program we want to open
            cmdArray[0] = "notepad.exe";

            // second argument is a txt file we want to open with notepad
            cmdArray[1] = "example.txt";
```

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

// create a process and execute cmdArray and current environment
Process process = Runtime.getRuntime().exec(cmdArray, null);

// print another message
System.out.println("example.txt 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 and opening example.txt
example.txt should now open.
Loading [MathJax]/jax/output/HTML-CSS/jax.js
```