

JAVA.LANG.RUNTIME.EXEC METHOD

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

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Description

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

Declaration

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

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

Parameters

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

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
            Process process = Runtime.getRuntime().exec(cmdArray);
```

```
// 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
```