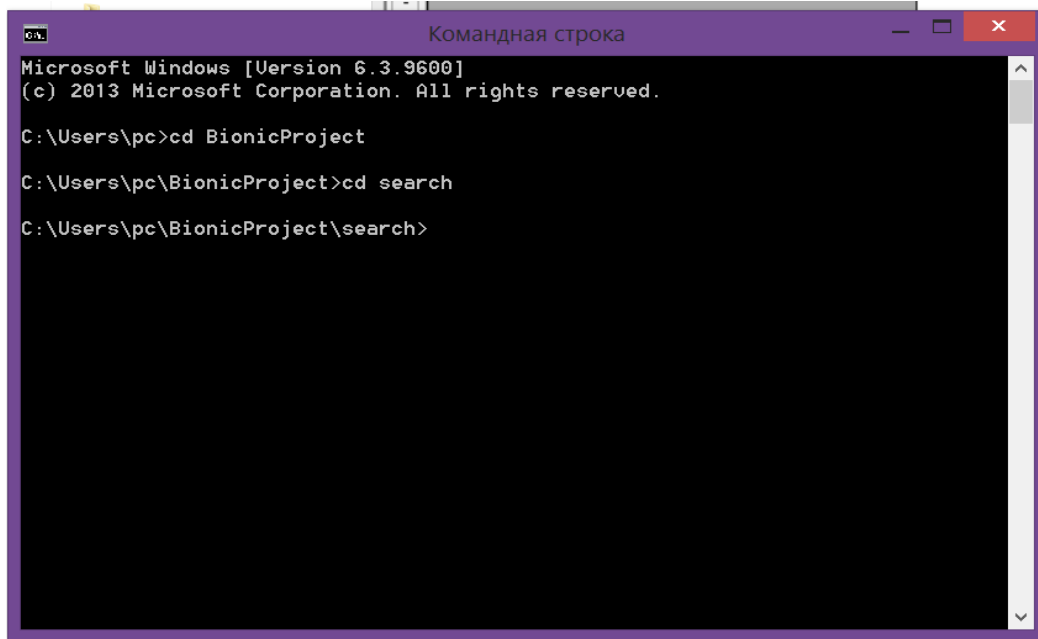


# 1.User guide:

To run this program:

1. unzip folder "search" from archive file to folder, convenient for you .
2. open command prompt and using it go to folder "search" from (1)



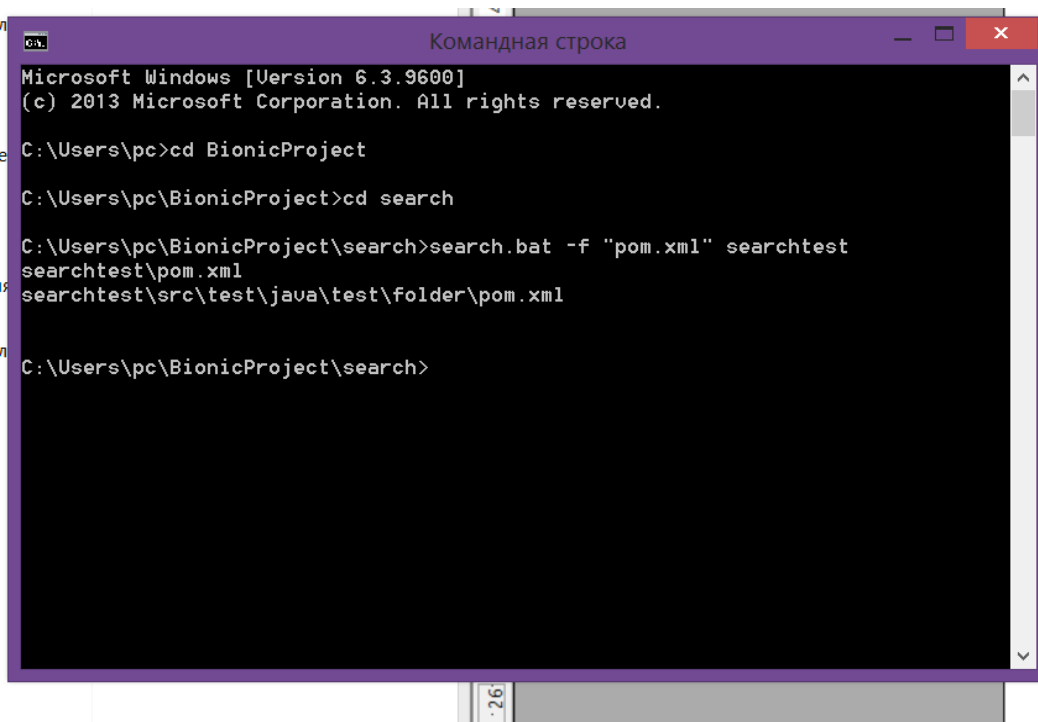
```
Командная строка
Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.

C:\Users\pc>cd BionicProject
C:\Users\pc\BionicProject>cd search
C:\Users\pc\BionicProject\search>
```

3. to find all the files whose names match some text and that are in choosen directory and its' subdirectories enter command:

*search.bat -f "file.name" directoryPath*

as you can see on picture and it will print the result.



```
Командная строка
Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.

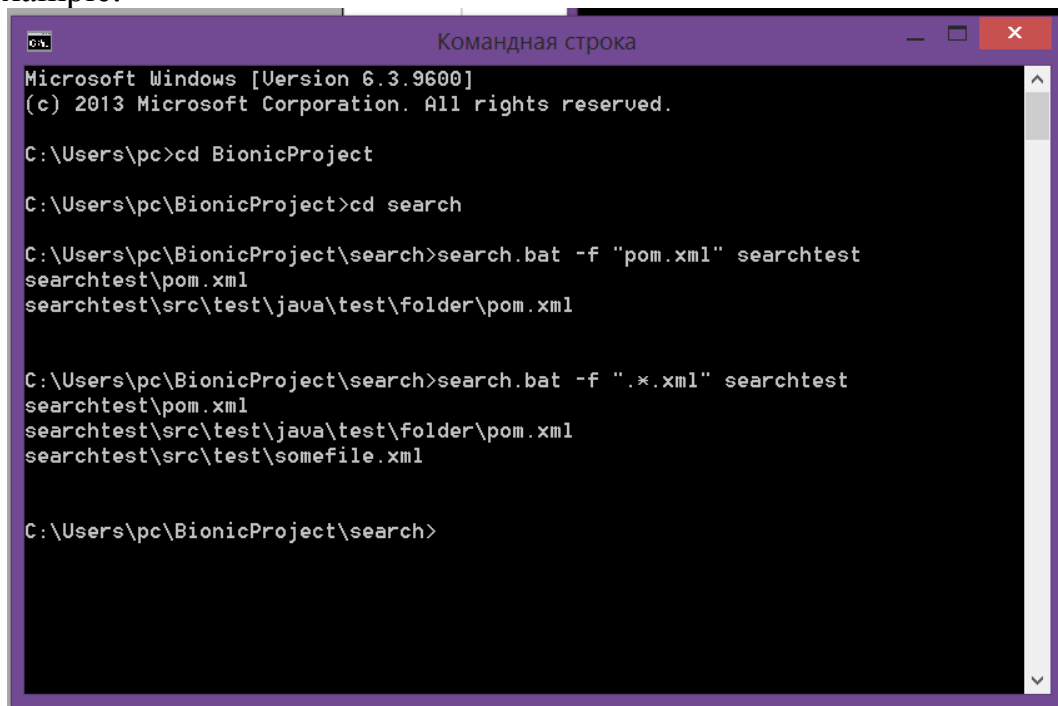
C:\Users\pc>cd BionicProject
C:\Users\pc\BionicProject>cd search
C:\Users\pc\BionicProject\search>search.bat -f "pom.xml" searchtest
searchtest\pom.xml
searchtest\src\test\java\test\folder\pom.xml
C:\Users\pc\BionicProject\search>
```

Directory path can be absolute or relative.

Note: for testing I created directory "searchtest" inside project folder. Its' structure:

```
└─ searchtest
  └─ java
    └─ test
      └─ folder
        └─ test
          └─ App.java
      └─ specifications
        └─ WilliamHillPreInterviewJavaTest.pdf
    └─ src
      └─ main
      └─ test
        └─ java
          └─ somefile.xml
  └─ target
    └─ pom.xml
    └─ test
```

4. Instead of definite text in " " you can input a regular expression, for example:



```
Командная строка
Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.

C:\Users\pc>cd BionicProject
C:\Users\pc\BionicProject>cd search
C:\Users\pc\BionicProject\search>search.bat -f "pom.xml" searchtest
searchtest\pom.xml
searchtest\src\test\java\test\folder\pom.xml

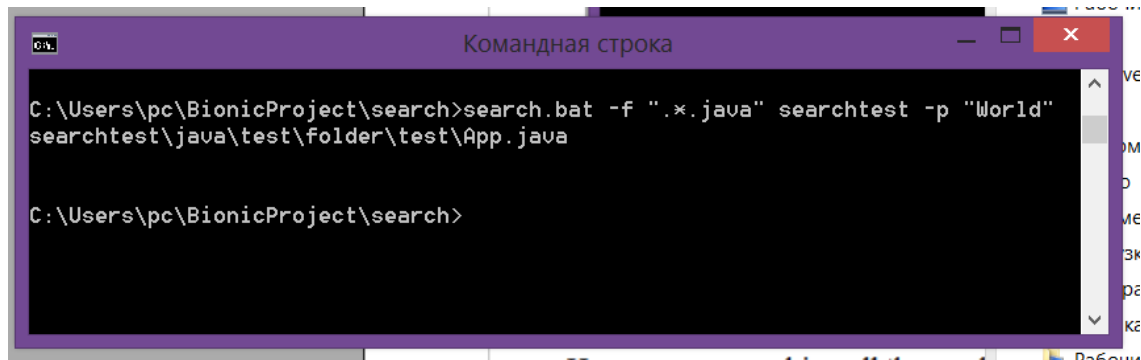
C:\Users\pc\BionicProject\search>search.bat -f ".\*.xml" searchtest
searchtest\pom.xml
searchtest\src\test\java\test\folder\pom.xml
searchtest\src\test\somefile.xml

C:\Users\pc\BionicProject\search>
```

Here we are searching all the .xml files from searchtest folder.

5. Except for -f parameter you also can search files that have in content definite text or regular expression. For this purpose use additional -p parameter:

*search.bat -f "name" directoryName -p "text" :*



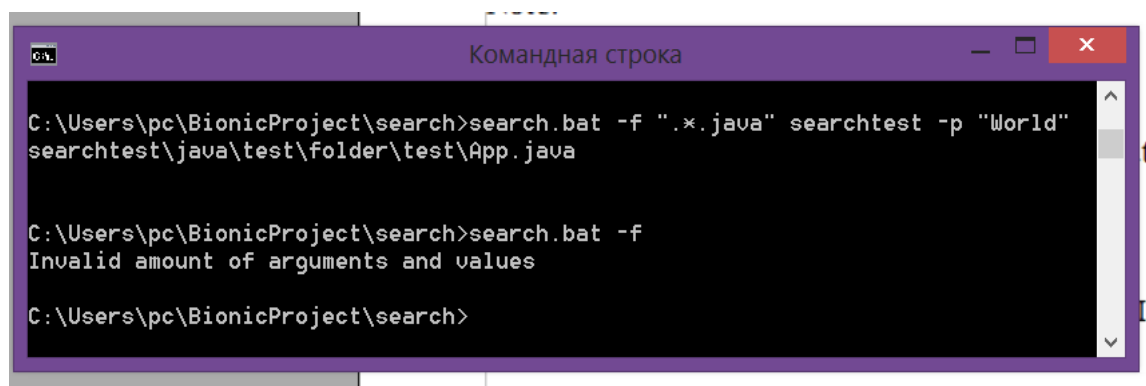
```
C:\Users\pc\BionicProject\search>search.bat -f \".*.java\" searchtest -p "World"
searchtest\java\test\folder\test\App.java

C:\Users\pc\BionicProject\search>
```

**Note:**

- f parameter is necessary!
- p parameter is optional

6. If user input is invalid (missing parameters or values, etc), responsible error message will be printed.



```
C:\Users\pc\BionicProject\search>search.bat -f \".*.java\" searchtest -p "World"
searchtest\java\test\folder\test\App.java

C:\Users\pc\BionicProject\search>search.bat -f
Invalid amount of arguments and values

C:\Users\pc\BionicProject\search>
```

For additional information about program struture, algorythm and methods you can read in comments inside code.

## Technologies & Libraries:

This program is written in Java using Eclipse IDE. Batch file (with .bat extension) was created in Notepad++.

The only library I used was **JRE System Library** versiob 1.8 (for working with files, regular expressions and so on) and **JUNIT 4 Library** (for writting tests).