

Classpath

Date: 12th Sep 2024

Exercise 1:

```
Microsoft Windows [Version 10.0.22631.4037]
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C:\Users\BELCY>cd C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myprojectfiles

C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myprojectfiles>javac Bird.java -d C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myclassfiles

C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myprojectfiles>javac Parrot.java -classpath C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myclassfiles -d C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myclassfiles

C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myprojectfiles>javac TestRunner.java -classpath C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myclassfiles -d C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myclassfiles

C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myprojectfiles>java -classpath C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myclassfiles test.TestRunner
Bird's fly method:
Am flying
Parrot's fly method:
Am flying
Parrot's speak method:
Am speaking

C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myprojectfiles>
```

Exercise 2:

```
Microsoft Windows [Version 10.0.22631.4037]
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C:\Users\BELCY>cd C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\test

C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\test>javac "C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myprojectfiles\Bird.java" -d C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myclassfiles

C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\test>javac "C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myprojectfiles\Parrot.java" -classpath C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myclassfiles -d C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myclassfiles

C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\test>javac "C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myprojectfiles\TestRunner.java" -classpath C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myclassfiles -d C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myclassfiles

C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\test>java -classpath C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myclassfiles test.TestRunner
Bird's fly method:
Am flying
Parrot's fly method:
Am flying
Parrot's speak method:
Am speaking

C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\test>
```

Exercise 3:

```
Microsoft Windows [Version 10.0.22631.4037]
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C:\Users\BELCY>cd C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myprojectfiles

C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myprojectfiles>javac Bird.java -d C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\file1

C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myprojectfiles>javac Parrot.java -d C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\file2 -classpath C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\file1

C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myprojectfiles>javac TestRunner.java -d C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\runfile -classpath C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\file1;C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\file2

C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myprojectfiles>java -classpath C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\file1;C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\file2;C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\runfile test.TestRunner
Bird's fly method:
Am flying
Parrot's fly method:
Am flying
Parrot's speak method:
Am speaking

C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myprojectfiles>
```

Exercise 4:

```
Command Prompt

C:\Users\BELCY>cd C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myprojectfiles

C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myprojectfiles>javac Bird.java -d C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myclasses

C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myprojectfiles>javac Parrot.java -d C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myclasses -classpath C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myclasses

C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myprojectfiles>javac TestRunner.java -d C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myclasses -classpath C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myclasses

C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myprojectfiles>jar cf myclasses.jar -C C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myclasses .

C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myprojectfiles>jar tf myclasses.jar
META-INF/
META-INF/MANIFEST.MF
birds/
birds/Bird.class
child/
child/Parrot.class
test/
test/TestRunner.class

C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myprojectfiles>java -classpath "C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myprojectfiles\myclasses.jar" test.TestRunner
Bird's fly method:
Am flying
Parrot's fly method:
Am flying
Parrot's speak method:
Am speaking
```

Exercise 5:

```
Command Prompt

Microsoft Windows [Version 10.0.22631.4037]
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C:\Users\BELCY>cd C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myprojectfiles

C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myprojectfiles>javac Bird.java -d C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myclasses

C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myprojectfiles>javac Parrot.java -d C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myclasses -classpath C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myclasses

C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myprojectfiles>javac TestRunner.java -d C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myclasses -classpath C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myclasses

C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myprojectfiles>java -classpath "C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myprojectfiles\myclasses.jar";C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myclasses test.TestRunner
Bird's fly method:
Am flying
Parrot's fly method:
Am flying
Parrot's speak method:
Am speaking

C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myprojectfiles>java -classpath C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myclasses;"C:\Users\BELCY\OneDrive\Documents\Zoho_task\Tasks\myprojectfiles\myclasses.jar" test.TestRunner
Bird's fly method:
Am flying
Am flying so high
Parrot's fly method:
Am flying
Am flying so high
Parrot's speak method:
Am speaking
```

Inference:

If two classes with the same name exist in the classpath, the one which is first specified gets executed.