

Programming Basics: Live exercises

Introduction

Task 1: Understanding terminology

Decide whether the following statements are true or false.

Γ		
	True	False
In contrast to problem-oriented programming languages, machine-oriented programming languages are always tailored to a computer platform.		
You can use the same compiler on all platforms.		
If the source code is written in a machine-oriented programming language, then the translator is called a compiler.		
Processors can directly run programmes written in problem-oriented programming languages.		
A programme is a form of operating instructions for a computer system.		
Compiled programmes make optimal use of the properties of the respective platform.		
Compilers convert a programme from a source language into an equivalent programme in a target language.		
Programmes translated by a compiler are platform dependent.		
The task of a compiler is to convert programmes in machine language into programmes that can be read by a programmer.		
An algorithm is more accurate than the natural language and more detailed than the programme to be created.		
Machine-oriented programming languages can be used anywhere, regardless of the platform.		



Task 2: Fill in the gaps

1 45	ok 2. Thi in the gaps
Fill i	n the gaps in the following text by adding one or two words in the marked areas.
(1)	In a programming language, both the
	(synonym:) as well as the (synonym:)
	of the individual must be defined.
(2)	The task of a is to convert all sentences in a source language
(2)	into equivalent sentences in a target language.
(3)	In the case of programming languages, a distinction is made as to whether they can be or
(4)	When programming, the problem solution is often first written down in the form of
	an
	it's described in more detail, but not yet fully detailed, as is
	required by a
(5)	In order for Java programmes to be platform independent, they run within a
,	, which is also called a
	For all common operating systems, this is provided in the form of the
(()	An Toron Lordson, Language and the American Language and
(6) (7)	An is a Java bytecode programme that runs in a web browser. A is a Java bytecode programme that runs on a web server.
(7) (8)	An is a Java bytecode programme that runs on a web server. An is an executable Java bytecode programme that does not require a
(0)	web browser.
(0)	Complete the pregramme so that it outputs "Good healt" on the server
(9)	Complete the programme so that it outputs "Good luck!" on the screen.
	public class Output {
	<pre>public static void main(String[] args) {</pre>
	<pre>System.out.println(" Good luck! ");</pre>
	}
	}
(10)	The name under which the programme's source file is stored by (9) should be
(1.1)	(Please make sure to use the correct upper/lower case).
(11)	To compile the
(12)	The compiler creates a file that contains
(12)	in (11) will have the name
(13)	To execute the bytecode from (12), enter the command in
()	the DOS window.
(14)	The programme that interprets the bytecode is called
/4 =\	Java.
(15)	A
(16)	The method is the point at which a programme is started.

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- - (ii) and (iii)

Task 3: Syntacticly Correct?

Decide whether the following code snippets have correct syntax or not. If you find any errors, please mark them in the source code.

```
(1)
      public class MyClass {
        public static void main (String[] args) {
          System.out.println("Hello!");
(2)
      public class MyClass {
        public static void main (String[] args) {
          System.out.println("Hello"); System.out.println(" World! ");
      }
(3)
      public MyClass
        public static void main (String[] args)
          System.out.println("Hello!");
      }
(4)
      public class MyClass
        public static void main (String[] args);
          System.out.println("Hello!");
        }
      }
```