wk4-Tools and Libraries for Everyone

Tuesday, December 15, 2020 11:23 AM

To transfer data across a network connection.

✓ Congratulations! You passed! TO PASS 80% or higher	GRADE 100%
Java: Tools and Libraries for Everyone LATEST SUBMISSION GRADE 100%	
 1. What is the name of the method that starts a Java program? _start _firstMethod _begin _main 	1 point
 What argument type should the method that starts a Java program take? an ArrayList<string></string> no arguments an int and a String an array of Strings 	1 point
 3. What effect comes from declaring a field "static"? The value in the field can only increase, never decrease. There is only one copy of that field for the entire class, not one per instance. The value in the field cannot be changed once it is initialized. The value in the field can only be changed by code inside the class. 	1 point
4. In Java, how is the keyword "throw" used? To open a file for writing.	1 point

	To handle an exception that has already occurred.				
	To make an exception occur when the program detects a problematic circumstance that it cannot directly handle.				
_	-		1 point		
5.	Crea	Creating a new socket, as with:			
	1 Socket s = new Socket(addr,port);				
	can t	hrow an IOException according to the documentation of the java.net.Socket class.			
	Whic	h of the following structures is the best way to create a socket while handling the exception?			
	•	1* try {			
		<pre>Socket s = new Socket(addr, port); //code that uses s }</pre>			
		5 * catch(IOException ioe) { 6			
		7 }			
	0	1 Socket s = new Socket(addr, port);			
		2* try { 3 //code that uses s			
		4 } 5 * catch(IOException ioe) { 6 //code to handle the exception			
		7 }			
	0	1 * try {			
		<pre>Socket s = new Socket(addr, port); 3 }</pre>			
		4 * catch(IOException ioe) { 5 //code that uses s 6 }			
		7 //code to handle the exception			
		1* try {			
		<pre>Socket s = new Socket(addr, port); 3 }</pre>			
		4 * catch(IOException ioe) { 5 //code to handle the exception			
		6 } 7 //code that uses s			
6.	In Jav	a, how is the keyword "finally" used?	1 point		
	О Т	o specify a piece of code to execute immediately after the end of the current loop.			
	_	o indicate that you are finally done debugging a particularly complicated piece of code.			
	In	n exception handling to specify code that should be executed regardless of whether an exception happened or not.			
	О т	o specify code to run when the program exits.			
7.	If you	wanted to read the contents of a file without using the edu.duke package, you might call	1 point		
		newBufferedReader.	i point		
	What	would you pass into Files.newBufferedReader?			

	\bigcirc	a FileResource
	0	a Comparator
	•	a Path
	0	an IOException
8.		ou need to read data from a website without using the edu.duke package, you would probably want to use classes und in which package?
	•	java.net
	0	java.lolcats
	0	java.internet
	0	java.urls
9.		a saw that a BufferedReader can be used to read data from a file on the local computer, as well as from a website. You 1 point all also use it with other sources of data, as long as you have an appropriate Reader class to access the data.
	The	se capabilities are a great example of the benefits of which programming principles? Select the two best options.
		Write Robust Code: the BufferedReader class never throws an exception, instead it deals with every situation
	~	<u>Abstraction</u> : the BufferedReader class can work with any class that conforms to a specific interface, and does not need to know the details of how/where it reads data
		Astrachan's Law: you can only use the BufferedReader class to solve interesting problems, never for something boring or that you could do by hand
	~	Open/Closed Principle: the BufferedReader class is designed such that it can have its functionality expanded (to read from new data sources) without having to modify its code
		<u>Everything Is A Number</u> : the BufferedReader class can read data of any type, and return it as a Java object of an appropriate class