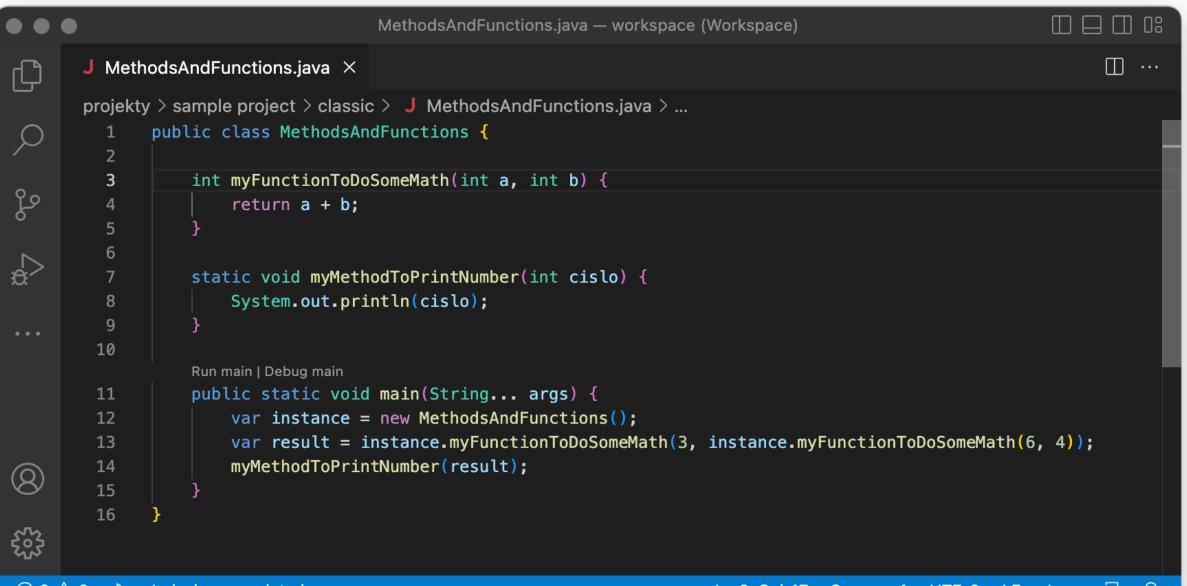
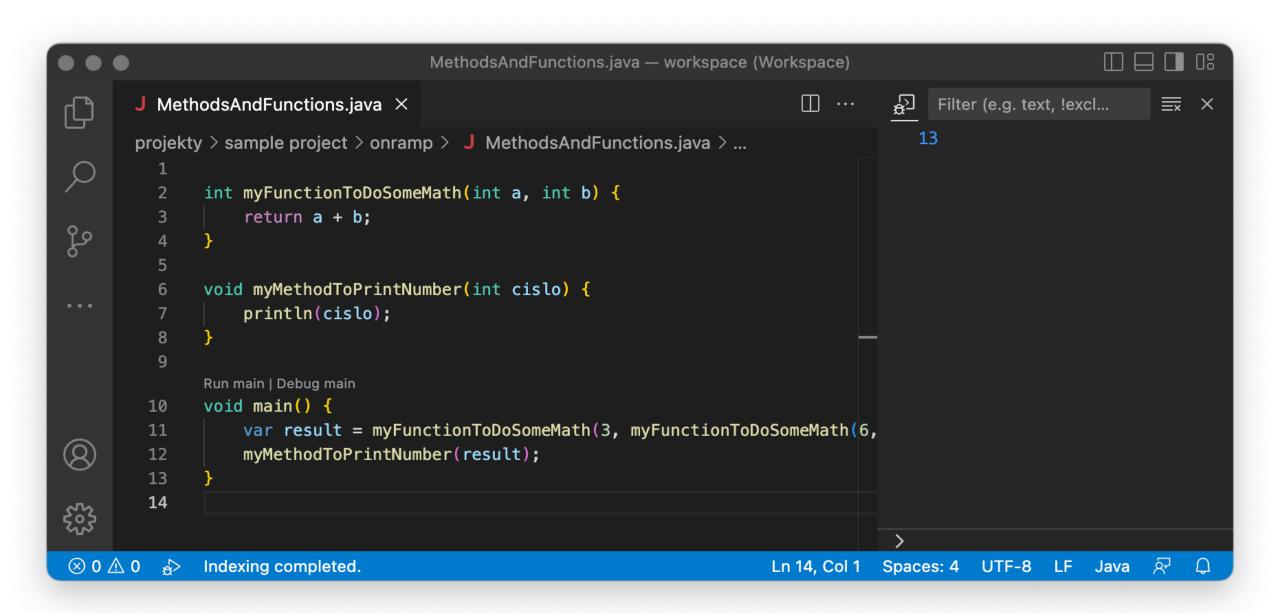
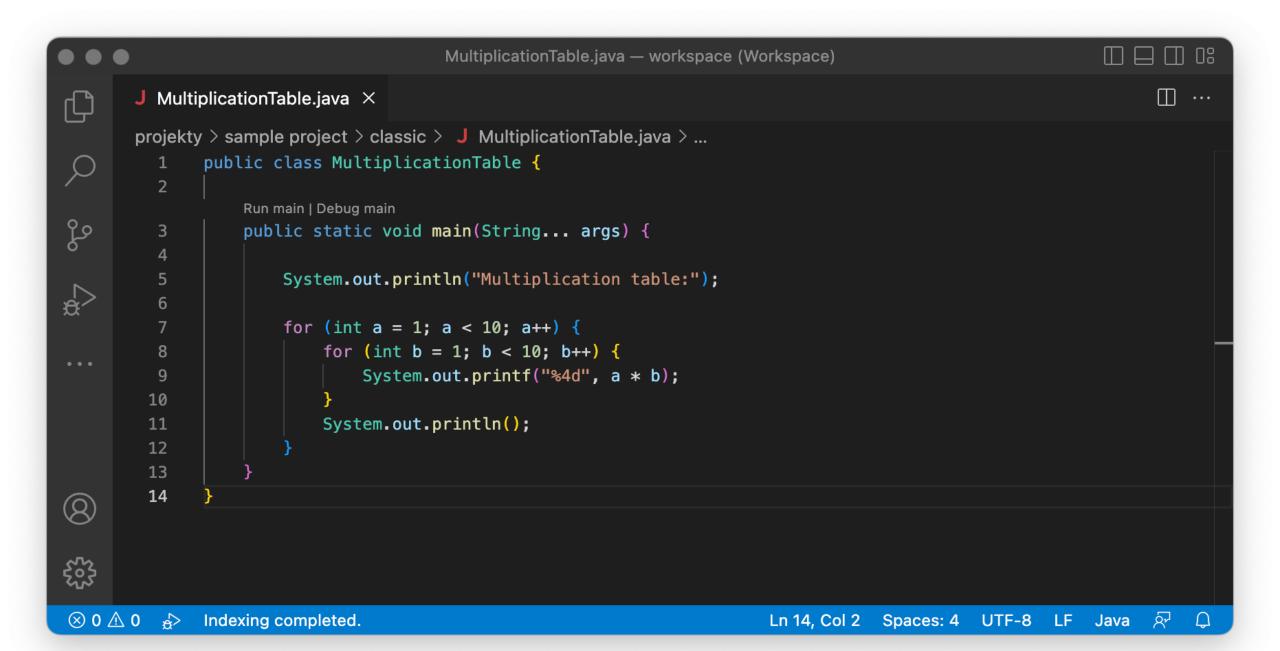
Demo by Adam Sotona

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••	•		readme.java — workspace (Wor	rkspace)			
Û	J readr	me.java $ imes$	□ …	<u>8</u>	Filter (e.g. text, !exclu	Java Single Debug	~ <u>≡</u> ×
- の い の い の の の の の の の の の の の の の の の		<pre>y > sample project > J readme.java > Run main Debug main void main() { print(""" Adam Sotona Java Platform Group @ Oracle Live experience with JEP: 445 Flexible Main Methods and / Following exaples can be found at: <u>https://gist.github.com/asotona """"); } </u></pre>	Anonymous Main Classes —	Adam Sotona Java Platform Group @ Ora Live experience with JEP: Following exaples can be https://gist.github.c	445 Flexible Main Metho found at:	ods and Anonymous	Main Classes
8							
£533				>			
⊗ 0 ∠	∆0 å>	Indexing completed.			Ln 14, Col 10 Spa	ices: 4 UTF-8 LF	Java & 다



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	•		MultiplicationTable.java — wo	rkspace (Wor	kspace)						(08
Ð	J Multi	plicationTable.java $ imes$		· · ·		<u>a</u>		Fil	ter (e	.g. te	xt, !e	xclu		<u></u> ≣×	×
] می ::	projekty 1 2 3 4 5 6 7 8	<pre>Run main Debug main void main() { println("Multiplica for (int a = 1; a < for (int b = 1;</pre>				Multi 1 2 3 4 5 6 7 8 9	plic 2 4 6 8 10 12 14 16 18	atio 3 9 12 15 18 21 24 27	n ta 8 12 16 20 24 28 32 36	ble: 5 10 15 20 25 30 35 40 45	6 12 18 24 30 36 42 48 54	7 14 21 28 35 42 49 56 63	8 16 24 32 40 48 56 64 72	9 18 27 36 45 54 63 72 81	
() () () () () () () () () () () () () (9 10 11 12 ♪ 0 €	<pre>println(); } J Indexing completed.</pre>			L	> n 9, Col 18	Spa	aces:	<mark>4 (</mark>	JTF-8	3 LI	F Ja	ava	হিন্দু	Q

••	•	MultiplicationTesting.java — workspace (Workspace)		(08
Ð	J Mult	iplicationTesting.java ×				
] م ا	projekt 1 2 3 4 5	<pre>y > sample project > classic > J MultiplicationTesting.java > import java.io.BufferedReader; import java.io.IOException; import java.io.InputStreamReader; import java.util.Random;</pre>				
∠_ æ	6 7	public class MultiplicationTesting {				
	_	Run main Debug main				
B	8 9	<pre>public static void main(String args) throws IOException {</pre>				
	9 10	<pre>var input = new BufferedReader(new InputStreamReader(System.in));</pre>				
因	11	var input – new burrer curcader (new inputstream/cader (System, in/))				
	12	<pre>System.out.print("How many math tasks do you want to try? ");</pre>				
	13	<pre>var count = Integer.parseInt(input.readLine());</pre>				
	14	<pre>var correctAnswers = 0;</pre>				
	15	var wrongAnswers = 0;				
	16	<pre>var random = new Random();</pre>				
	17					
	18	for (var i = 1; i <= count; i++) {				
	19	<pre>System.out.println("Task #" + i + ":");</pre>				
	20	<pre>var a = random.nextInt(2, 10);</pre>				
	21	<pre>var b = random.nextInt(2, 10);</pre>				
	22 23	<pre>System.out.print(a + " * " + b + " = "); your result = Integer percent(input, read(inp()));</pre>				
	23	<pre>var result = Integer.parseInt(input.readLine()); if (result == a * b) {</pre>				
	24	correctAnswers++;				
	26	System.out.println("Your answer is correct!");				
	27	<pre>} else {</pre>				
	28	wrongAnswers++;				
	29	<pre>System.out.println("Wrong answer, correct answer is " + a + " * " + b + " = " + a * b);</pre>				
	30					
	31					
	32					
	33	<pre>System.out.println("Correct answers: " + correctAnswers);</pre>				
	34	<pre>System.out.println("Wrong answers: " + wrongAnswers);</pre>				
8	35					
	36	}				
2 633						
⊗ 0 ∠	∆o ₅>	Indexing completed.	Ln 8, Col 20 Spaces: 4	UTF-8 LF J	ava &	Q

•••		MultiplicationTesting.java — v	vorkspace (Workspace)		
C) ·	J MultiplicationTable.java	J MultiplicationTesting.java $ imes$	··· ·	ភ្នា Filter (e	e.g. text, !exclu 🗮 🗙
く や や の 歌 の の 歌	Run main Debug main void main() { var count = Int var correctAnsw var wrongAnswer var random = ne for (var i = 1; println("Ta var a = rar var b = rar var result if (result if (result correct printlr } else { wrongAr printlr else { println("Correct println("Wrong } 24	rs = 0;	nt to try? ")); →	Your answer is correct! Task #2: 9 * 2 = 20 Wrong answer, correct answ Task #3: 3 * 5 = 15 Your answer is correct! Correct answers: 2 Wrong answers: 1	wer is 9 * 2 = 18
⊗ 0 ∆ 0	$D \xrightarrow{h} Indexing completed.$			Ln 7, Col 1 Spaces: 4	UTF-8 LF Java 🖗 🗘

•••		MultiplicationTesting.java — v	vorkspace (Workspace)		
C) ·	J MultiplicationTable.java	J MultiplicationTesting.java $ imes$	··· ·	ភ្នា Filter (e	e.g. text, !exclu 🗮 🗙
く や や の 歌 の の 歌	Run main Debug main void main() { var count = Int var correctAnsw var wrongAnswer var random = ne for (var i = 1; println("Ta var a = rar var b = rar var result if (result if (result correct printlr } else { wrongAr printlr else { println("Correct println("Wrong } 24	rs = 0;	nt to try? ")); →	Your answer is correct! Task #2: 9 * 2 = 20 Wrong answer, correct answ Task #3: 3 * 5 = 15 Your answer is correct! Correct answers: 2 Wrong answers: 1	wer is 9 * 2 = 18
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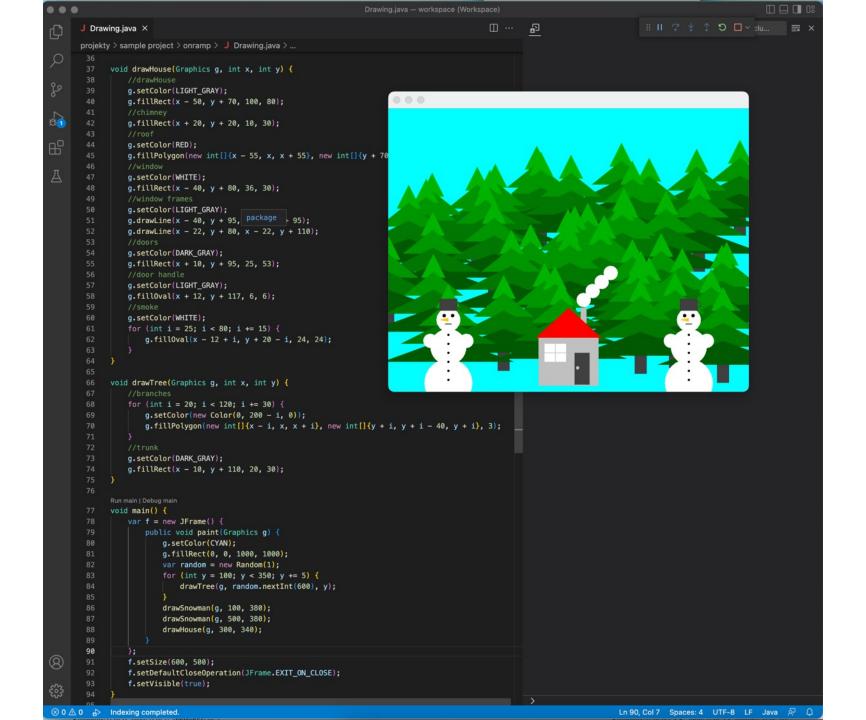
••	•	PyramidPuzzle.java — workspace (Workspace)	
Ð	J Pyrar	nidPuzzle.java $ imes$	□ …
		v > sample project > classic > J PyramidPuzzle.java	
		<pre>import java.io.BufferedReader; import java.io.IOException;</pre>	
° ~		import java.io.InputStreamReader;	
દુષ્ટ		<pre>import java.util.BitSet;</pre>	0.00
à		public class PyramidPuzzle {	
æ		int size;	
₿		BitSet[] towers;	
	10 11	BufferedReader input;	
囚	12	<pre>void printTowers() {</pre>	
	13 14	<pre>for (var level = size - 1; level >= 0; level) { for (var tower : towers) { </pre>	
		<pre>int stoneSize = 0;</pre>	
	16 17	<pre>for (int i = level; i < tower.cardinality(); i++) { stoneSize = tower.nextSetBit(stoneSize) + 1;</pre>	
		<pre>stolesize = tower mextsetsit(stolesize) + 1; }</pre>	
	19 20	<pre>if (stoneSize > 0) { System.out.print(" ".repeat(size - stoneSize + 1) + "".repeat(2 * stoneSize - 1) + " ".repeat(size - stoneSize));</pre>	
		3 such as the set of the state is the sta	
		<pre>System.out.print(" ".repeat(2 * size));</pre>	
		System.out.println();	
	26 27	<pre>} System.out.println(" ".repeat(size) + "A" + " ".repeat(2 * size - 1) + "B" + " ".repeat(2 * size - 1) + "C");</pre>	
	29 30	BitSet selectTower(String message) throws IOException {	
		while (true) try {	
		<pre>System.out.print(message); return towers[input.readLine().toUpperCase().charAt(0) - 'A'];</pre>	
		<pre>} catch (Exception e) {</pre>	
	35 36	System.out.println("Invalid intput.");	
	38 39	<pre>void main() throws IOException {</pre>	
		<pre>input = new BufferedReader(new InputStreamReader(System.in));</pre>	
	41 42	<pre>towers = new BitSet[] {new BitSet(), new BitSet(), new BitSet()};</pre>	
		<pre>System.out.print("Enter tower size: "); size = Integer.parseInt(input.readLine());</pre>	
	44 45	<pre>towers[0].set(0, size, true); while (towers[2].cardinality() < size) {</pre>	
		<pre>white (towers[2].cardinality() < size) { printTowers();</pre>	
		<pre>var sourceTower = selectTower("Take stone from tower (A, B or C): ");</pre>	
		<pre>var sourceStone = sourceTower.nextSetBit(0); if (sourceStone < 0) {</pre>	
		System.out.println("Nothing to move!");	
	51 52	<pre>} else { var targetTower = selectTower("and move it to tower (A, B or C): ");</pre>	
		<pre>var targetStone = targetTower.nextSetBit(0);</pre>	
	54 55	<pre>if (targetStone >= 0 && targetStone < sourceStone) { System.out.println("Cannot put bigger stone on smaller!");</pre>	
		} else {	
8		<pre>sourceTower.clear(sourceStone); targetTower.set(sourceStone);</pre>	
503			
	60 61		
⊗ 0 /	∆o d>	Indexing completed. Ln 11, Col 1 Spaces: 4 UTF-8 1	.F Java 🔊 🗘

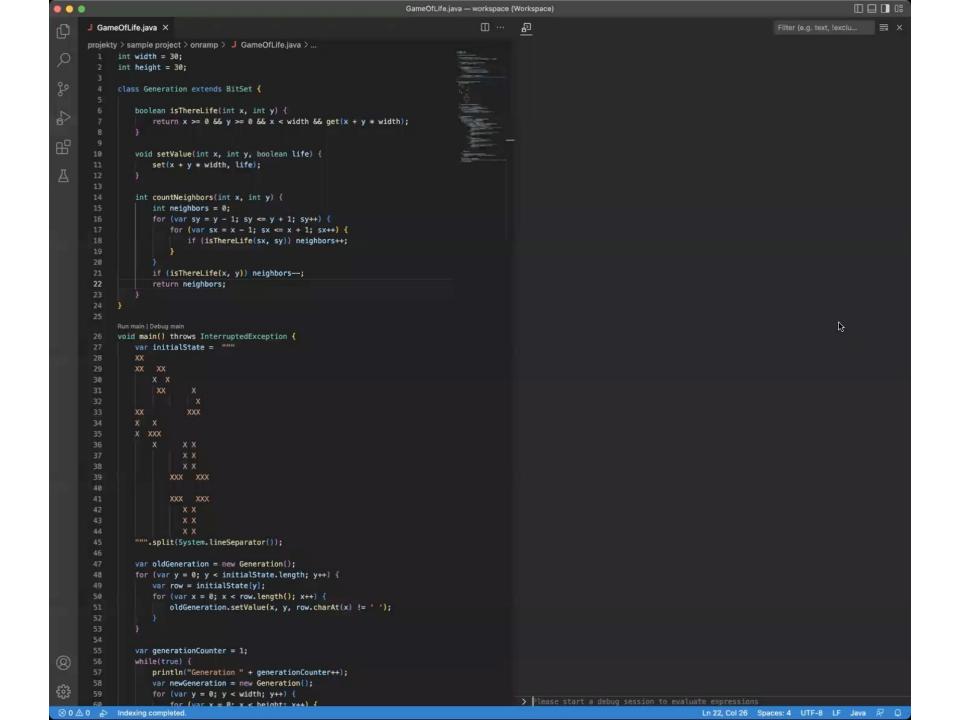
	PyramidPuzzle.java — workspace (Workspace)				
Ð	J PyramidPuzzle.java $ imes$	□ …	Filter (e.g. text, !exclu	undefined	~ ≣ ×
	projekty > sample project > onramp > J PyramidPuzzle.java		Enter tower size:		
	1 int size;		→ 3		
\sim	2 BitSet[] towers;				
0 -					
<u>д</u> о	4 void printTowers() {				
	5 for (var level = size - 1; level >= 0; level) { 6 for (var level = size - 1; level >= 0; level) {				
\leq	6 for (var tower : towers) { 7 int stoneSize = 0;		Take stone from tower (A, B or C):	
C.	<pre>8 for (int i = level; i < tower.cardinality(); i++) {</pre>		→ a		
-0	9 stoneSize = tower.nextSetBit(StoneSize) + 1;		and move it to tower (A	B or C).	
₽	10 }		→ C	, вогсу.	
	<pre>11 if (stoneSize > 0) {</pre>				
A	12 print(" ".repeat(size - stoneSize + 1) + "",repeat(2 * stoneSize - 1) + " ".repeat(size - stoneSize	Size));			
	13 } else {				
	14 print(" ".repeat(2 * size));		A B C		
			Take stone from tower (A B or C).	
	16 } 17 println();		→ a	n, b or cy.	
	17 princin(); 18 }				
	<pre>19 println(" ".repeat(size) + "A" + " ".repeat(2 * size - 1) + "B" + " ".repeat(2 * size - 1) + "C");</pre>		and move it to tower (A	, B or C):	
			→ b		
	21				
	22 BitSet selectTower(String message) {				
	23 while (true) try {		00000 000 0		
	<pre>24 return towers[input(message).toUpperCase().charAt(0) - 'A'];</pre>		A B C		
	25 } catch (Exception e) {		Take stone from tower (A, B or C):	
	26 println("Invalid intput.");				
	27 } 28 }				
	20 29		and move it to tower (A → b		
	30 void main() {				
	<pre>31 towers = new BitSet[] {new BitSet(), new BitSet(), new BitSet());</pre>				
	<pre>32 size = Integer.parseInt(input("Enter tower size: "));</pre>				
	<pre>33 towers[0].set(0, size, true);</pre>		A B C		
	<pre>34 while (towers[2].cardinality() < size) {</pre>		Take stone from tower (A. B or C):	
	35 printTowers();		→ a		
	<pre>36 var sourceTower = selectTower("Take stone from tower (A, B or C): "); 37 var sourceStone = sourceTower.nextSetBit(0);</pre>				
	<pre>37 var sourceStone = sourceTower.nextSetBit(0); 38 if (sourceStone < 0) {</pre>		and move it to tower (A	, B or C):	
	<pre>39 println("Nothing to move!");</pre>				
	40 } else {				
	<pre>41 var targetTower = selectTower("and move it to tower (A, B or C): ");</pre>				
	<pre>42 var targetStone = targetTower.nextSetBit(0);</pre>				
	43 if (targetStone >= 0 && targetStone < sourceStone) {				
	44 println("Cannot put bigger stone on smaller!");		Take stone from tower (A, B or C):	
	45 } else {		→ b		
	46 sourceTower.clear(sourceStone);		and move it to tower (A	R on C)+	
	47 targetTower.set(sourceStone); 48 }		and move it to tower (A → a	, b or c):	
	48 2 2 49 2 2 49 2 2 4 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4				
	49 } 50 }				
8	51 printTowers();				
	<pre>52 println("Congratulations, puzzle solved!"); 52</pre>		0 000 0000		
siz	53 }		A B C	A P ar C	
£03	54		Take stone from tower (A, B or ():	
	0 d> Indexing completed.		Ln 29, Col 1 Spaces: 4		

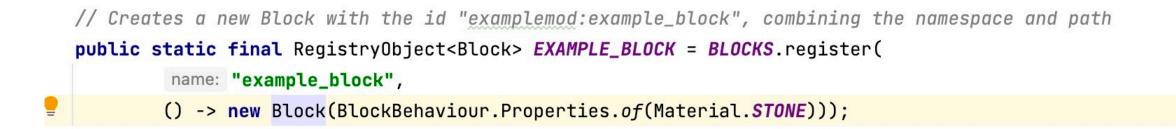
	•	ConditionalProgramBranching.java — workspace (Workspace)			(
Ð	J Con	litionalProgramBranching.java $ imes$	□ …	표 표 Filt	er (e.g. text, !exclu	. = ×
	projekt 1 2	y > sample project > onramp > J ConditionalProgramBranching.java > Run main Debug main void main() { 		→ 1003	number: 1003 is bigger t	han 10
<u>م</u> م	2 3 4 5	<pre>var number = Integer.parseInt(input("Enter a number:")); //the program block after the conditional is executed only when the condition is met</pre>		number	1003 is bigger t 1003 is bigger t 1003 je odd	
₽¢	6 7	<pre>if (number > 10) { println("number " + number + " is bigger than 10");</pre>				
₿	8 9 10	<pre>//conditions can be nested if (number > 100) { println("number " + number + " is bigger than 100");</pre>				
囚	11 12 13 14 15 16	<pre>if (number > 1000) { println("number " + number + " is bigger than 1000"); } //if we add the "else" command, the following block of the program will be executed only if the condition is not } else {</pre>	met			
	17 18 19 20 21	<pre>println("number " + number + " is less than or equal to 10"); } //the math operation % in Java calculates what remains after dividing two integers //and if we have nothing left after dividing by two, then the number is even</pre>				
	22 23 24 25	<pre>if (number % 2 == 0) { println("number " + number + " je even"); } else { println("number " + number + " je odd");</pre>				
533 (M)	26 27 28 29	}		>		
⊗ 0 ∠	∆0 ∲>	Indexing completed.	Ln 3, Col	40 Spaces:	4 UTF-8 LF Ja	ava & Q

	ColorTable.java — workspace (Workspace)	
Ð	J ColorTable.java ×	$\underline{\mathfrak{A}}$ Filter (e.g. text, !exclu Java Single Deb \checkmark $\equiv \times$
	<pre>projekty > sample project > onramp > J ColorTable.java > Run main Debug main void main() { println("color codes table:"); for (var backgroundColor = 40; backgroundColor < 48; backgroundColor++) { for (var textColor = 30; textColor < 38; textColor++) { for (var textColor = 30; textColor < 38; textColor ++ "m" + textColor + "/" + backgroundColor + "\033[0m ") } print("\033[" + textColor + ";" + backgroundColor + "m" + textColor + "/" + backgroundColor + "\033[0m ") } println(); } p</pre>	<pre>color codes table:</pre>
⊗ 0 ⊿	λ 0 a> Indexing completed.	Ln 5, Col 108 Spaces: 4 UTF-8 LF Java 🖗 🗘 🎾

LHome	QuizSolution.java ×	0 ··· 8	Filter (e.g. text, lexclu ≣
	> sample project > onramp > J HomeQuizSolution.java > un main Debug main	write me → Hello Wo	some message: rld!
	oid main() {		
	<pre>var message = input("write me some message:");</pre>	Hello Wo	
		assignme HloWrd	
	<pre>var letterCount = message.length();</pre>		e text to be sticked to each letter of the message:
	//the following program prints a message by letters from the first to the last	→ :)	
	<pre>println("the original text of the message is:");</pre>		
	//ATTENTION: in programming, we usually start counting with zero and not one		ied sticker is :) - message with stickers:
	for (var $i = 0$; $i < letterCount$; $i = i + 1$) {)l:)o:) :)W:)o:)r:)l:)d:)!:)
11	<pre>var letter = message.charAt(i);</pre>		
12		Hello Wo	
13 14	<pre>print(letter);</pre>	Hello Wo — Hello Wo	
14	//and finally we print end of the line	Hello Wo	
	<pre>println();</pre>	Hello Wo	
17			
		Hello Wo	
	<pre>//task #1: rewrite the program so that it skips every other letter and prints only odd letter</pre>	rs from the message Hello Wo Hello Wo	
20 21	<pre>println("assignment c.1 - message with omitted letters:"); for (var i = 0; i < letterCount; i = i + 2) {</pre>	Hello Wo	
21	var letter = message.charAt(i);		e c.4 - message written backwards:
23	<pre>print(letter);</pre>		lleH
	<pre>println();</pre>		
28 29	<pre>//here the program will ask you for the text to work with var sticker = input("write the text to be sticked to each letter of the message:");</pre>		
30	var sticker = input(write the text to be sticked to each tetter of the message:);		
	//in this command you will find a hint for solving task c.2		
	<pre>println("specified sticker is " + sticker);</pre>		
34			
35 36	<pre>//task #2: rewrite the following program so it pastes the specified sticker to each letter or printle(!!sock = 2</pre>	f the message	
	<pre>println("task c.2 - message with stickers:"); for (var i = 0; i < letterCount; i = i + 1) {</pre>		
38	<pre>var letter = message.charAt(i);</pre>		
	<pre>print(letter + sticker);</pre>		
	<pre>println();</pre>		
42			
43 44	<pre>//task #3: write a program that prints messages 10 times</pre>		
45	<pre>println("challenge c.3 - message 10x :");</pre>		
	for (var i = 0; i < 10; i++) {		
47	<pre>println(message);</pre>		
50 51			
51	//difficult task #4: try to rewrite the following program so it prints letters backwards		
	<pre>println("challenge c.4 - message written backwards:");</pre>		
	for (var $i = letterCount - 1$; $i \ge 0$; $i = i - 1$) {		
	<pre>var letter = message.charAt(i);</pre>		
56	<pre>print(letter);</pre>		
	}		
58 59	<pre>println();</pre>		





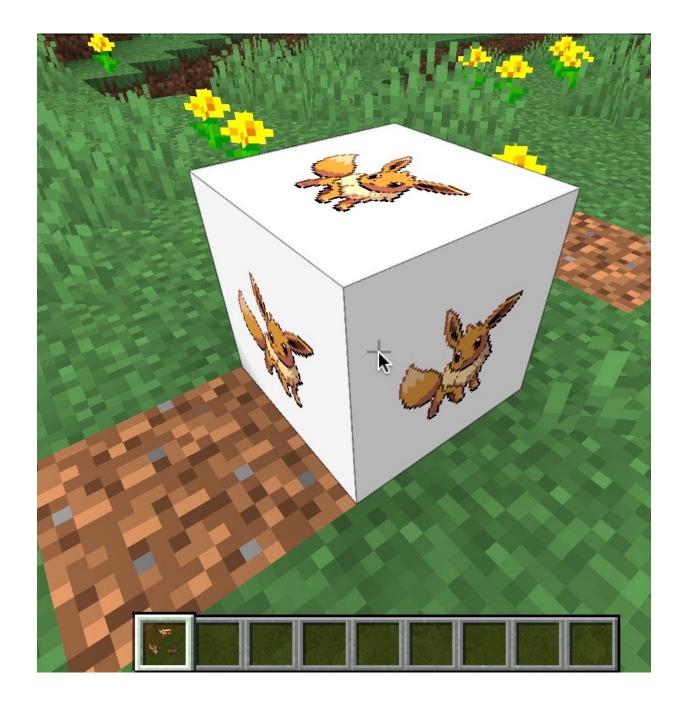




// Creates a new Block with the id "examplemod:example_block", combining the namespace and path
public static final RegistryObject<Block> EXAMPLE_BLOCK = BLOCKS.register(

name: "example_block",

() -> new Block(BlockBehaviour.Properties.of(Material.STONE).lightLevel(blockState -> 15)));



Some of the samples published at https://gist.github.com/asotona