

## SYMBOL TABLE for ShapeArea.lsd

Total Tokenized Lexemes: 237

Elapsed Time: 0.0019855499267578125

LINE	LEXEME	TOKEN
1	//	COMMENT_SINGLE
3	//	COMMENT_SINGLE
4	func	KEYWORD_FUNC
4	calculateRectangleArea	IDENTIFIER
4	(	OPEN_PARENTHESIS
4	float	KEYWORD_FLOAT
4	length	IDENTIFIER
4	,	SEPARATOR
4	float	KEYWORD_FLOAT
4	width	IDENTIFIER
4	)	CLOSE_PARENTHESIS
4	:	CODEBLK_INDICATOR
4	{	OPEN_CURLY_BRACKET
5	float	KEYWORD_FLOAT
5	area	IDENTIFIER
5	=	OP_ASSIGNMENT
5	length	IDENTIFIER
5	*	OP_MULTIPLICATION
5	width	IDENTIFIER
5	;	STMT_TERMINATOR
6	return	KEYWORD_RETURN
6	area	IDENTIFIER
6	;	STMT_TERMINATOR
7	}	CLOSE_CURLY_BRACKET
9	//	COMMENT_SINGLE
10	func	KEYWORD_FUNC
10	calculateSquareArea	IDENTIFIER

LINE	LEXEME	TOKEN
10	(	OPEN_PARENTHESIS
10	float	KEYWORD_FLOAT
10	side	IDENTIFIER
10	)	CLOSE_PARENTHESIS
10	:	CODEBLK_INDICATOR
10	{	OPEN_CURLY_BRACKET
11	float	KEYWORD_FLOAT
11	area	IDENTIFIER
11	=	OP_ASSIGNMENT
11	side	IDENTIFIER
11	*	OP_MULTIPLICATION
11	side	IDENTIFIER
11	;	STMT_TERMINATOR
12	return	KEYWORD_RETURN
12	area	IDENTIFIER
12	;	STMT_TERMINATOR
13	}	CLOSE_CURLY_BRACKET
15	//	COMMENT_SINGLE
16	func	KEYWORD_FUNC
16	calculateTriangleArea	IDENTIFIER
16	(	OPEN_PARENTHESIS
16	float	KEYWORD_FLOAT
16	base	IDENTIFIER
16	,	SEPARATOR
16	float	KEYWORD_FLOAT
16	height	IDENTIFIER
16	)	CLOSE_PARENTHESIS
16	:	CODEBLK_INDICATOR
16	{	OPEN_CURLY_BRACKET
17	float	KEYWORD_FLOAT

LINE	LEXEME	TOKEN
17	area	IDENTIFIER
17	=	OP_ASSIGNMENT
17	0.5	DOUBLE_LITERAL
17	*	OP_MULTIPLICATION
17	base	IDENTIFIER
17	*	OP_MULTIPLICATION
17	height	IDENTIFIER
17	;	STMT_TERMINATOR
18	return	KEYWORD_RETURN
18	area	IDENTIFIER
18	;	STMT_TERMINATOR
19	}	CLOSE_CURLY_BRACKET
21	#	UNKNOWN_TOKEN
21	Main	IDENTIFIER
22	functionmain	IDENTIFIER
22	(	OPEN_PARENTHESIS
22	)	CLOSE_PARENTHESIS
22	{	OPEN_CURLY_BRACKET
23	#	UNKNOWN_TOKEN
23	Ask	IDENTIFIER
23	the	IDENTIFIER
23	user	IDENTIFIER
23	to	IDENTIFIER
23	choose	IDENTIFIER
23	a	IDENTIFIER
24	shape	IDENTIFIER
24	display	KEYWORD_DISPLAY
24	(	OPEN_PARENTHESIS
24	"Choose a shape:\n1. Rectangle\n2. Square\n3. Triangle"	STRING_LITERAL

LINE	LEXEME	TOKEN
24	)	CLOSE_PARENTHESIS
24	;	STMT_TERMINATOR
25	int	KEYWORD_INT
25	shapeChoice	IDENTIFIER
25	=	OP_ASSIGNMENT
25	toInt	IDENTIFIER
25	(	OPEN_PARENTHESIS
25	ask	KEYWORD_ASK
25	(	OPEN_PARENTHESIS
25	)	CLOSE_PARENTHESIS
25	)	CLOSE_PARENTHESIS
25	;	STMT_TERMINATOR
27	#	UNKNOWN_TOKEN
27	Perform	IDENTIFIER
27	calculations	IDENTIFIER
27	based	IDENTIFIER
27	on	IDENTIFIER
27	the	IDENTIFIER
27	user's	UNKNOWN_TOKEN
27	choice	UNKNOWN_TOKEN
28	if	KEYWORD_IF
28	(	OPEN_PARENTHESIS
28	shapeChoice	IDENTIFIER
28	==	EQUALITY_OP
28	1	INT_LITERAL
28	)	CLOSE_PARENTHESIS
28	then	KEYWORD_THEN
28	:	CODEBLK_INDICATOR
28	{	OPEN_CURLY_BRACKET
29	float	KEYWORD_FLOAT

LINE	LEXEME	TOKEN
29	length	IDENTIFIER
29	=	OP_ASSIGNMENT
29	ask	KEYWORD_ASK
29	(	OPEN_PARENTHESIS
29	"Enter the length of the rectangle: "	STRING_LITERAL
29	)	CLOSE_PARENTHESIS
29	;	STMT_TERMINATOR
30	float	KEYWORD_FLOAT
30	width	IDENTIFIER
30	=	OP_ASSIGNMENT
30	ask	KEYWORD_ASK
30	(	OPEN_PARENTHESIS
30	"Enter the width of the rectangle: "	STRING_LITERAL
30	)	CLOSE_PARENTHESIS
30	;	STMT_TERMINATOR
32	float	KEYWORD_FLOAT
32	area	IDENTIFIER
32	=	OP_ASSIGNMENT
32	calculateRectangleArea	IDENTIFIER
32	(	OPEN_PARENTHESIS
32	length	IDENTIFIER
32	,	SEPARATOR
32	width	IDENTIFIER
32	)	CLOSE_PARENTHESIS
32	;	STMT_TERMINATOR
33	display	KEYWORD_DISPLAY
33	(	OPEN_PARENTHESIS
33	"The area of the rectangle is: "	STRING_LITERAL
33	,	SEPARATOR

LINE	LEXEME	TOKEN
33	area	IDENTIFIER
33	)	CLOSE_PARENTHESIS
33	;	STMT_TERMINATOR
34	}	CLOSE_CURLY_BRACKET
34	else	KEYWORD_ELSE
34	if	KEYWORD_IF
34	(	OPEN_PARENTHESIS
34	shapeChoice	IDENTIFIER
34	==	EQUALITY_OP
34	2	INT_LITERAL
34	)	CLOSE_PARENTHESIS
34	then	KEYWORD_THEN
34	:	CODEBLK_INDICATOR
34	{	OPEN_CURLY_BRACKET
35	float	KEYWORD_FLOAT
35	side	IDENTIFIER
35	=	OP_ASSIGNMENT
35	ask	KEYWORD_ASK
35	(	OPEN_PARENTHESIS
35	"Enter the side length of the square: "	STRING_LITERAL
35	)	CLOSE_PARENTHESIS
35	;	STMT_TERMINATOR
37	float	KEYWORD_FLOAT
37	area	IDENTIFIER
37	=	OP_ASSIGNMENT
37	calculateSquareArea	IDENTIFIER
37	(	OPEN_PARENTHESIS
37	side	IDENTIFIER
37	)	CLOSE_PARENTHESIS

LINE	LEXEME	TOKEN
37	;	STMT_TERMINATOR
38	display	KEYWORD_DISPLAY
38	(	OPEN_PARENTHESIS
38	"The area of the square is: "	STRING_LITERAL
38	,	SEPARATOR
38	area	IDENTIFIER
38	)	CLOSE_PARENTHESIS
38	;	STMT_TERMINATOR
39	}	CLOSE_CURLY_BRACKET
39	else	KEYWORD_ELSE
39	if	KEYWORD_IF
39	(	OPEN_PARENTHESIS
39	shapeChoice	IDENTIFIER
39	==	EQUALITY_OP
39	3	INT_LITERAL
39	)	CLOSE_PARENTHESIS
39	then	KEYWORD_THEN
39	:	CODEBLK_INDICATOR
39	{	OPEN_CURLY_BRACKET
40	float	KEYWORD_FLOAT
40	base	IDENTIFIER
40	=	OP_ASSIGNMENT
40	ask	KEYWORD_ASK
40	(	OPEN_PARENTHESIS
40	"Enter the base length of the triangle: "	STRING_LITERAL
40	)	CLOSE_PARENTHESIS
40	;	STMT_TERMINATOR
41	float	KEYWORD_FLOAT
41	height	IDENTIFIER

LINE	LEXEME	TOKEN
41	=	OP_ASSIGNMENT
41	ask	KEYWORD_ASK
41	(	OPEN_PARENTHESIS
41	"Enter the height of the triangle: "	STRING_LITERAL
41	)	CLOSE_PARENTHESIS
41	;	STMT_TERMINATOR
43	float	KEYWORD_FLOAT
43	area	IDENTIFIER
43	=	OP_ASSIGNMENT
43	calculateTriangleArea	IDENTIFIER
43	(	OPEN_PARENTHESIS
43	base	IDENTIFIER
43	,	SEPARATOR
43	height	IDENTIFIER
43	)	CLOSE_PARENTHESIS
43	;	STMT_TERMINATOR
44	display	KEYWORD_DISPLAY
44	(	OPEN_PARENTHESIS
44	"The area of the triangle is: "	STRING_LITERAL
44	,	SEPARATOR
44	area	IDENTIFIER
44	)	CLOSE_PARENTHESIS
44	;	STMT_TERMINATOR
45	}	CLOSE_CURLY_BRACKET
45	else	KEYWORD_ELSE
45	:	CODEBLK_INDICATOR
45	{	OPEN_CURLY_BRACKET
46	display	KEYWORD_DISPLAY
46	(	OPEN_PARENTHESIS



LINE	LEXEME	TOKEN
46	"Invalid shape choice. Please choose 1, 2, or 3."	STRING_LITERAL
46	)	CLOSE_PARENTHESIS
46	;	STMT_TERMINATOR
47	}	CLOSE_CURLY_BRACKET
48	}	CLOSE_CURLY_BRACKET