

SYMBOL TABLE for ShapeArea.lusd

Total Tokenized Lexemes :238

Elapsed Time :0.0010101795196533203

| 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 |
| 21 | function | IDENTIFIER |
| 22 | main | KEYWORD_MAIN |
| 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 |
| 23 | shape | IDENTIFIER |
| 24 | display | KEYWORD_DISPLAY |
| 24 | (| OPEN_PARENTHESIS |

| LINE | LEXEME | TOKEN |
|------|---|-------------------|
| 24 | "Choose a shape:\n1. Rectangle\n2. Square\n3. Triangle" | STRING_LITERAL |
| 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 |

| LINE | LEXEME | TOKEN |
|------|--|--------------------|
| 28 | { | OPEN_CURLY_BRACKET |
| 29 | float | KEYWORD_FLOAT |
| 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 |

| LINE | LEXEME | TOKEN |
|------|---|---------------------|
| 33 | "The area of the rectangle is: " | STRING_LITERAL |
| 33 | , | SEPARATOR |
| 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 |

| LINE | LEXEME | TOKEN |
|------|---|---------------------|
| 37 | side | IDENTIFIER |
| 37 |) | CLOSE_PARENTHESIS |
| 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 |

| LINE | LEXEME | TOKEN |
|------|--------------------------------------|---------------------|
| 41 | float | KEYWORD_FLOAT |
| 41 | height | IDENTIFIER |
| 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 |

| LINE | LEXEME | TOKEN |
|------|--|---------------------|
| 46 | (| OPEN_PARENTHESIS |
| 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 |