

The screenshot shows an IDE with several tabs open: `ArithmeticExpressionEvaluator.java`, `HangmanGameRunner.java`, `IndexOutOfBoundsException.java`, `ArrayList.java`, and `MyStack.java`. The `ArithmeticExpressionEvaluator.java` tab is active, displaying the following code:

```
67  /**
68   * boolean isUnaryMinus(char curr, char prev, int i):
69   * @param curr, the current character
70   * @param prev, the previous character
71   * @param i, whether the character is the first character in a string
72   * @return a boolean, whether a minus is a binary unus
73   */
74  boolean isUnaryMinus(char curr, char prev, int i){
75      //For unary minus either the preceding character is an operator, or open parenthesis or it is the 1st character in the string
76      return curr == '-' && (i==0 || getPrecedence(prev) > 0 || prev == '(');
77  }
78
79  /**
80   * private void createPostfixListfromInfix(String s):
81   * The algorithm populates the private ArrayList of strings in PostFix from from input Infix String as follows:
82   * If the character is operand, append character to the current element of string in ArrayList
83   * If the character is operator:
84   * 1. If the stack is empty push this operator into the stack.
85   * 2. Else, Pop all the operators from the stack which are greater than or equal to in precedence than that of the current operator.
86   * Then push the current operator to the stack.
87   * 3. If character is openings parenthesis '(', push it into the stack.
88   * 4. If character is closing parenthesis ')', pop all elements from the stack until matching '(' is reached while adding each character
89   * into the ArrayList as a separate element.
90   * @param s, the string we want to create a Postfix list out of
91   */
92  @ private void createPostfixListfromInfix(String s) {
93      MyStack<Character> mystack = new MyStack<>();
94      char prevChar = '\0';
95      boolean inNumSeqFlag = false;
96      //loop through the string s
97      for (int i = 0; i < s.length(); i++) {
```

The IDE interface includes a Project Explorer on the left showing the project structure with folders like `.idea`, `backup`, `out`, and `src`, and files like `ArithmeticExpressionEvaluator` and `MyStack`. The right sidebar shows a Database view with 19 warnings, 1 error, and 24 successful tests.

```
Run: ArithmeticExpressionEvaluator x
/Library/Java/JavaVirtualMachines/jdk1.8.0_271.jdk/Contents/Home/bin/java ...
*****
***** ARITHMETIC EXPRESSION CALCULATOR *****
*****
Please enter an Infix expression to convert to Postfix and evaluate at the prompt with a RETURN or
ENTER key at the end of the expression. For example (41-3*(85/4))
You can use any valid positive or negative decimal numbers for the operands. The basic arithmetic
operations addition(+), subtraction(-), multiplication(*), division(/), or
exponent(^) are allowed. You can also use any whitespace characters space, tab etc.
*****
Enter Infix Expression> $123.45*UUI/34567(
Invalid input. Please enter a valid infix expression which contains only valid decimal numbers (0-9) and valid arithmetic operators (+, -, *, / , ^) and parenthesis ( )
Enter Infix Expression> (53.45 + (23.4*9))
Invalid input. Please enter a valid infix expression which contains balanced parenthesis
Enter Infix Expression> (10.25 ^4 - 23+4.9*(53/2500^0.5))
You Entered> (10.25 ^4 - 23+4.9*(53/2500^0.5))
Postfix Expression> 10.25 4 ^ 23 - 4.9 53 2500 0.5 ^ / * +
Calculator Answer> 11020.323
*****
Do more calculations? (Enter Y for yes and any other key to stop)> Y
Enter Infix Expression> (-5^20 *-45*23+(-51*2.78^4/-53))
You Entered> (-5^20 *-45*23+(-51*2.78^4/-53))
Postfix Expression> -5 20 ^ -45 * 23 * -51 2.78 4 ^ * -53 / +
Calculator Answer> -98705291748046816
*****
Do more calculations? (Enter Y for yes and any other key to stop)> n

Process finished with exit code 0
```