Evaluation of Postfix Expression:

```
package stack1;
import java.util.Stack;
import java.util.Scanner;

public class postfixEvaluation {

                public static int evaluatePostfix(String expression) {
              Stack<Integer> stack = new Stack<>();

              for (char c : expression.toCharArray()) {
                 if (Character.isDigit(c)) {
                    // If the character is a digit, push it onto the stack
                    stack.push(c - '0'); // Convert char to int and push
                 } else {
                    // If the character is an operator, pop two operands from the
stack,
                    // apply the operator, and push the result back onto the stack
                    int operand2 = stack.pop();
                    int operand1 = stack.pop();
                    int result = applyOperator(operand1, operand2, c);
                    stack.push(result);
                 }
              }

              // The final result should be on the top of the stack
              return stack.pop();
           }

 private static int applyOperator(int operand1, int operand2, char operator) {
              switch (operator) {
                 case '+':
                    return operand1 + operand2;
                 case '-':
                    return operand1 - operand2;
                 case '*':
                    return operand1 * operand2;
                 case '/':
```

```
                    if (operand2 == 0) {
                        throw new ArithmeticException("Division by zero");
                    }
                    return operand1 / operand2;
                default:
                    throw new IllegalArgumentException("Invalid operator: " +
operator);
            }
        }

        public static void main(String[] args) {
            Scanner s=new Scanner(System.in);
            System.out.println("Enter the Postfix Expression");
            String postfixExpression =s.nextLine(); // Example postfix
expression
            int result = evaluatePostfix(postfixExpression);
            System.out.println("Result of the postfix expression: " + result);
        }
    }
```