**06 . Arithmetic Expression Evaluator**

**Condition:**

Write a program that accepts a string representing an arithmetic expression and calculates its value, respecting the precedence of operations and using parentheses correctly.

**Input:**

* On the first line, a string containing an arithmetic expression is entered, which can include numbers, operations (+, -, \*, /), and parentheses.

**Output:**

* The result of the expression is output as an integer or decimal number.

**Examples:**

|  |  |
| --- | --- |
| **Input** | **Output** |
| (3 + 5 \* 2 + 1) / 2 | 7 |
| (((3 + 4) + (5 \* 5)) / 10) \* 1 | 3.2 |