1. How will you tackle the challenge above?

Answer 1: At very first, I will check if the input is value because I need the integer value to make a program then I will return the value, however if the input is a formula, then I will check if the values used in the formula are present or not, and if the values in the formula are present then I will calculate the formula and return the calculated value.

1. What type of errors you would you check for?

Answer2: Formulas can sometimes result in error values in addition to returning unintended results.

So, if I want to solve this problem, Firstly I will check for the presence of the values.

If the values are present and formula can be calculated, then I will check for some of the following errors:

* Is the formula dividing by zero?
* Is the formula calculating a value larger than the maximum value of the current type?
* Is the formula calculating the square root of a negative number?
* Is the formula calculating the LOG of a negative number?
* Is the formula is trying to calculate the special characters instead of actual values?

1. How might a user break your code?

Answer3: Exception Handling must to prevent to terminate our program abnormally. The user may try to break our code if the exceptions are not handled properly. The “break code” refers to presenting your code with some kind of input that it is ill-equipped to handle.

Scenarios where user might break our code are:

* If the code is not properly version-controlled.
* If the code is untested.
* If the code is not actively maintained.
* If the code does not report errors.