This code will result in a `ZeroDivisionError`. Let's break down why:

1. **`num = 5`**: This line assigns the integer value 5 to the variable `num`.

2. **`ans = num / 0`**: This line attempts to divide the value of `num` (which is 5) by 0. Division by zero is undefined in mathematics and results in an error in programming.

3. **`print(num)`**: This line attempts to print the value of `num`. However, this line will *never* execute because the `ZeroDivisionError` will occur in the previous line, halting the program's execution. The error will be thrown before the program reaches the `print()` statement.

In summary: The code is flawed because it tries to perform an impossible mathematical operation. The output you'll see will be an error message similar to this (the exact wording might vary depending on your programming environment):

```
ZeroDivisionError: division by zero
```

The value of `num` (5) remains unchanged because the error occurs *before* the `print()` function is called. The program crashes due to the attempted division by zero.