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What is difference between errors and Exception in Python?

Errors are the event that occurs during the execution of the program that disrupts the flow of the programThere are two types of errors: 1. Syntax error 2. Logical error/Exception

Syntax error

These errors occurs when the programmer/developer write the syntax code of the programming language Below is the example of syntax error

```
In [2]: num = 1000

if num > 2000
    print("Number is greater than 2000")

else:
    print("Number is less than equal to 2000")

Cell In[2], line 3
    if num > 2000

SyntaxError: expected ':'
```

In the above example we can see that since we haven't inserted `:` in our code and hence the interpreter has thrown a syntax error and pointing it out where the occured.

Logical errors/Exception

These errors occurs during the runtime of the program even though it is syntactically correct There are various logical errors such as: 1. NameError 2. ValueError 3. EOFError 4. ZeroDivisionError and many more

NameError

ValueError

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ZeroDivisionError

As we can see in the above example that since error occured our rest part of the program isn't executed since our program was interrupted because of error. To handle these error we use exceptions.

```
In [ ]:
```

Loading [MathJax]/extensions/Safe.js