Basic Debugging

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- Look at which line is causing the error
    - Check for missing syntax),], :, whitespace, misspellings

Debugging in Python

```
1]: # Step 1: Where is the error coming from?

i = (10 * 4)/(2 + 5
j = 2 + 2
```

```
File "<ipython-input-1-43e978fca08b>", line 4
    j = 2 + 2
    ^
SyntaxError: invalid syntax
```

Google the error message
- StackOverflow

In [10]:
```
# Step 2: Google the error

#set up a sequence of numbers
sequence = range(-5,5, 1)

# let's print their inverses!
for i in sequence:
    print(1/i)
```
```
-0.2
-0.25
-0.3333333333333333
-0.5
-1.0

---------------------------------------------------------------------------
ZeroDivisionError                         Traceback (most recent call last)
<ipython-input-10-e9bd41a5c7bd> in <module>
      6 # let's print their inverses!
      7 for i in sequence:
----> 8     print(1/i)

ZeroDivisionError: division by zero
```

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Error python : [ZeroDivisionError: division by zero]

Asked 5 years, 4 months ago   Active 3 months ago   Viewed 62k times

12

I faced an error when I run my program using python: The error is like this:

```
ZeroDivisionError: division by zero
```

3

The visualization my program similar like this:

```
In [55]:

x = 0
y = 0
z = x/y
---------------------------------------------------------------------------
ZeroDivisionError                         Traceback (most recent call last)
<ipython-input-55-30b5d8268cca> in <module>()
      1 x = 0
      2 y = 0
----> 3 z = x/y

ZeroDivisionError: division by zero
```

In here I want to ask, how to avoid that error in python, my desired output is z = 0

python

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asked Apr 24 '15 at 1:04
markov zain
6,689 ● 10 ● 25 ● 37

- Use print statements
  - E.g. "is my if statement running?"
  - E.g. "what does this object look like?"

Common issues

- Did you forget a **parenthesis**? A **colon**? **Indentation**?
- Did you **misspell** something?
- Did you forget to **import** the right packages?
- Does your data/object look the way you think it should when you **print** it out (are the numbers actually strings? Did the variable take on an unexpected value? Does your binary data actually have more than 2 categories?)
- Did you write a function or use a function that **doesn't return anything**?
- Are there **missing values** in your data?

How to ask for help

Send me a message with:

1. A **screenshot of the code** (and applicable surrounding code) that is causing the issue
2. A **screenshot of the error message** OR what the code is doing that you don't want.
3. Short summary/links of **what you found on StackOverflow/Google** and
4. What you've **tried to fix it**.