

Colab Link: https://colab.research.google.com/drive/1HJjNV_MjFC6XlZlaEJvLRCsEaSuvRCbw?usp=sharing

```
print(a)
```

```
-----  
NameError                                Traceback (most recent call last)  
<ipython-input-1-bca0e2660b9f> in <module>()  
----> 1 print(a)  
  
NameError: name 'a' is not defined
```

SEARCH STACK OVERFLOW

```
if (5>3):
```

```
File "<ipython-input-4-2c3c3da165b0>", line 1  
    if (5>3):  
      ^  
SyntaxError: unexpected EOF while parsing
```

SEARCH STACK OVERFLOW

```
import dontknow
```

```
-----  
ModuleNotFoundError                      Traceback (most recent call last)  
<ipython-input-5-bcd87af70373> in <module>()  
----> 1 import dontknow  
  
ModuleNotFoundError: No module named 'dontknow'
```

NOTE: If your import is failing due to a missing package, you can manually install dependencies using either `!pip` or `!apt`.

To view examples of installing some common dependencies, click the "Open Examples" button below.

Saved successfully!



FLOW

```
"Data Science".sort()
```

```

__builtins__

<module 'builtins' (built-in)>
AttributeError: str object has no attribute sort

print(dir(__builtins__))

ntError', 'FutureWarning', 'GeneratorExit', 'IOError', 'ImportError', 'ImportW

temp = dir(__builtins__)

count = 0
for element in temp:
    if "Error" in element:
        print(element)
        count += 1
print(count)

ArithmeticError
AssertionError
AttributeError
BlockingIOError
BrokenPipeError
BufferError
ChildProcessError
ConnectionAbortedError
ConnectionError
ConnectionRefusedError
ConnectionResetError
EOFError
EnvironmentError
FileExistsError
FileNotFoundError
FloatingPointError
IOError
ImportError
IndentationError
IndexError
InterruptedError
IsADirectoryError
KeyError
LookupError
MemoryError
NotADirectoryError
NotImplementedError
OSError
OverflowError
PermissionError
ProcessLookupError
RecursionError
ReferenceError
RuntimeError
SyntaxError

```

Saved successfully!



```

SystemError
TabError
TimeoutError
TypeError
UnboundLocalError
UnicodeDecodeError
UnicodeEncodeError
UnicodeError
UnicodeTranslateError
ValueError
ZeroDivisionError
48

```

Exception Handling

```

x = 1
y = 0
z = x / y
print(x)
print("Hello World")

```

```

-----
ZeroDivisionError                                Traceback (most recent call last)
<ipython-input-15-cbb7b8ed8096> in <module>()
      1 x = 1
      2 y = 0
----> 3 z = x / y
      4 print(x)
      5 print("Hello World")

ZeroDivisionError: division by zero

```

SEARCH STACK OVERFLOW

try-except

```

a = int(input("Enter the inout first"))
b = int(input("Enter the input second"))

```

```

Enter the inout first5
Enter the input second0

```

Saved successfully!

```

-----
ZeroDivisionError                                Traceback (most recent call last)
<ipython-input-18-aae42d317509> in <module>()
----> 1 a/b

ZeroDivisionError: division by zero

```

SEARCH STACK OVERFLOW

```

a = int(input("Enter the inout first"))
b = int(input("Enter the input second"))
try:
    result = a/b
    print(f"Output of a/b is {result}")
except:
    print("There is some error")

```

```

Enter the inout first14
Enter the input second0
There is some error

```

```
lst = [2, 0, "helloo", None]
```

```

for element in lst:
    try:
        print(f"Current element: {element}")
        result = 5/element
        print(f"Result is {result}")
    except Exception as e:
        print("Error occured:", e)

Current element: 2
Result is 2.5
Current element: 0
Error occured: division by zero
Current element: helloo
Error occured: unsupported operand type(s) for /: 'int' and 'str'
Current element: None
Error occured: unsupported operand type(s) for /: 'int' and 'NoneType'

```

```

for element in lst:
    try:
        print(f"Current element: {element}")
        result = 5/element
        print(f"Result is {result}")
    except ValueError as vs:
        print("Provide a valid integer:", vs)
    except ZeroDivisionError as zs:
        print("Provide a different second number",zs)
    except Exception as e:
        print("Error casused", e)

```

Saved successfully!

```

Current element: 2
Result is 2.5
-----
Current element: 0
Provide a different second number division by zero
-----
Current element: helloo
Error casused unsupported operand type(s) for /: 'int' and 'str'
-----
Current element: None

```

Error caused unsupported operand type(s) for /: 'int' and 'NoneType'

```
try:
    ans= 5/0
    print(ans)
except Exception as e:
    print(e)
finally:
    print("I ran finally")

    division by zero
    I ran finally
```

```
try:
    ans= 5/0
    print(ans)
except Exception as e:
    print(e)
print("I ran finally")

    division by zero
    I ran finally
```

Raise Exceptions

```
try:
    name = input("Enter a name ")
    if len(name) < 3:
        raise Exception("Name cannot be less than 3 characters")
    print("Hello", name)
except Exception as e:
    print("Error occurred", e)
print("Some 100 lines after this")

Enter a name It
Error occurred Name cannot be less than 3 characters
Some 100 lines after this
```

```
def foo():
```

Saved successfully!



```
    print(ans)
except Exception as e:
    return e
print("I ran finally")
```

```
def foo2():
    try:
        ans= 5/0
        print(ans)
```

```
except Exception as e:
    return e
finally:
    print("I ran finally")

foo()

ZeroDivisionError('division by zero')

foo2()

I ran finally
ZeroDivisionError('division by zero')

#class MyCustomError(Exception)

# How to create custom immutable objects
# How can we make our custom Error and python interpreter will be able to categoris
```

Saved successfully!



completed at 21:57

