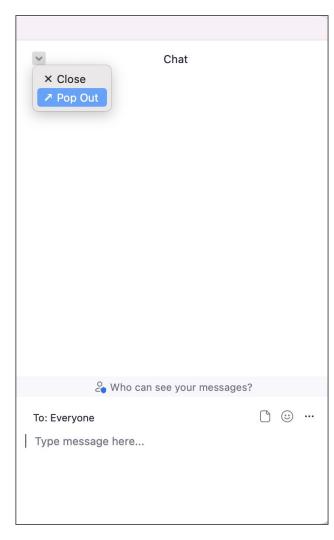
# Programming with Python

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### cs50.ly/zoom



#### code.cs50.io

## souvenir photo

```
narity.py ×
  1 def main():
  2 \cdots x = int(input("What's x?"))
   3 ····if is_even(x):
   4 ·····print("Even")
   5 ····else:
   6 ....print("0dd")
     def is_even(n):
  10
     · · · · return n % 2 == 0
  11
  12
  13 main()
 TERMINAL
 What's x? 2
 Even
 $ python parity.py
 What's x? 3
     3:44:40 / 5:34:40
```

### match

# Programming with Python

Debugging

### TODO

# Programming with Python

Debugging

# Programming with Python

Style

### TODO

# Programming with Python

Style

# Programming with Python

**Object-Oriented Programming** 

# tuple

#### classes

#### docs.python.org/3/tutorial/classes.html

#### class

# objects

### attributes

# instance variables

### methods

#### instance methods

### init

#### raise

### \_\_str\_\_

## properties

### @property

#### decorators

### int

# docs.python.org/3/library/functions.html#int

### class int(x, base=10)





#### str

### docs.python.org/3/library/stdtypes.html#str

# class str(object='')

str.lower()

# str.strip([chars])

#### list

### docs.python.org/3/library/stdtypes.html#list

## docs.python.org/3/tutorial/datastructures.html

# class list([iterable])

#### 7

list.append(x)

#### dict

### docs.python.org/3/library/stdtypes.html#dict

#### class methods

#### @classmethod

#### static methods

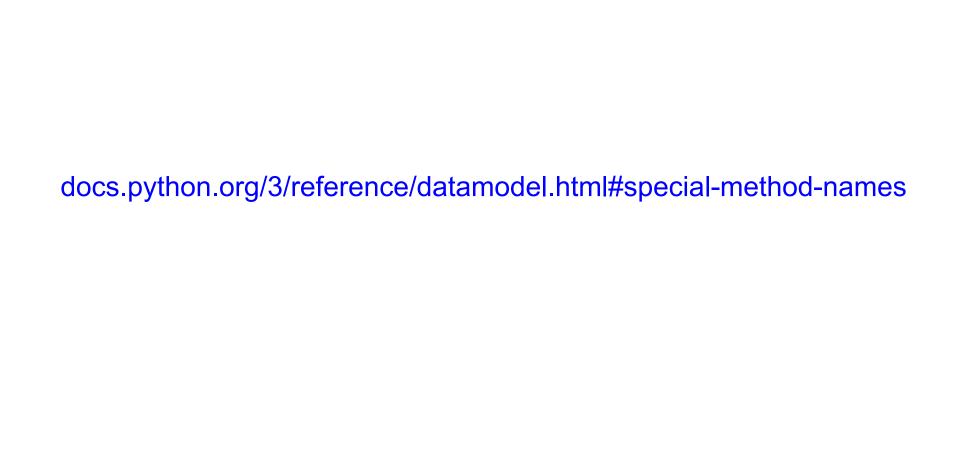
#### @staticmethod

#### inheritance

#### docs.python.org/3/library/exceptions.html

```
BaseException
+-- KeyboardInterrupt
+-- Exception
      +-- ArithmeticError
           +-- ZeroDivisionError
      +-- AssertionError
      +-- EOFError
      +-- ImportError
           +-- ModuleNotFoundError
      +-- LookupError
           +-- KeyError
      +-- NameError
      +-- SyntaxError
           +-- IndentationError
      +-- ValueError
```

#### operator overloading



object.\_\_add\_\_(self, other)

Introduction to

#### Programming with Python

**Object-Oriented Programming**