Function Examples

https://powcoder.com

https://powcoder.com

Hog Contest Rules

- Up to two people submit one entry; Max of one entry per person
- Your score is the number of entries against which you win more than 50.00001% of the time
- Strategies are time-linAtssignment ProjectiEmamnHelp
- All strategies must be deterministic, pure functions of the players' scores,
- Winning entries will receive a paltry amount of extra credit
- The real prize: honor and glowdd WeChatsmooderngsik Lee
- See website for detailed rules

Fall 2011 Winners

Kaylee Mann Yan Duan & Ziming Li Brian Prike & Zhenghao Qian Parker Schuh & Robert Chatham

Chenyang Yuan Joseph Hui Fall 2013 Winners

Kevin Chen

Fall 2014 Winners

Alan Tong & Elaine Zhao Zhenyang Zhang Adam Robert Villaflor & Joany Gao Zhen Oin & Dian Chen Zizheng Tai & Yihe Li

Hog Contest Winners

Spring 2015 Winners

Sinho Chewi & Alexander Nguyen Tran Zhaoxi Li Stella Tao and Yao Ge

Fall 2015 Winners

Assignment Project Exam Help Micah Carroll & Vasilis Oikonomou Matthew Wu

Anthony Yeung and Alexander Daittps://powcoder.comes Li

Spring 2016 Winners

Michael McDonald and Tianrui Acid WeChat powcoder 2018 Winners Andrei Kassiantchouk Eric James Michaud

Benjamin Krieges

Fall 2016 Winners

Will Gan & Robert Ouitt Eric Sheng & Sachin Kesiraju Mingwei Samuel Simon Zhuang & Vaikunth Balaji Fanyu Meng & Zekai Fan

Spring 2017 Winners

Cindy Jin and Sunjoon Lee Anny Patino and Christian Vasquez Asana Choudhury and Jenna Wen Michelle Lee and Nicholas Chew

Fall 2017 Winners

Alex Yu and Tanmay Khattar

Justin Yokota

Zivu Dona

Xuhui Zhou

Fall 2018 Winners

Rahul Arya Jonathan Bodine Sumer Kohli and Neelesh Ramachandran

Hog Contest Winners

Fall 2019 Winners

Jet Situ and Lucas Schaberg Anthony Han and Hongyi Huang Arthur Pan and Qingyuan Liu

Spring 2020 Winners Project Exam Help

Theodor Sion and Anish Kar

Shaun Diem-Lane https://powcoder.com

Timothy Guo

Shomini Sandd WeChat powcoder Samuel Berkun

Mitchell Zhen

Lucas Clark

Dominic de Bettencourt

Allen Gu

Alec Li

Aaron Janse

Fall 2021 Winners

https://pbwcoder.com

What Would Python Display?

The print function returns None. It also displays its arguments (separated by spaces) when it is called.

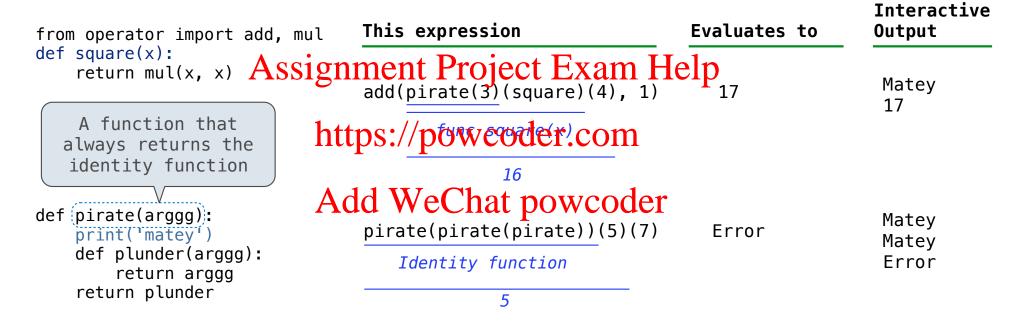
<pre>from operator import add, def square(x):</pre>	lute explession	Evaluates to	Output
return mul(x, x) Assignment Project Exam Help			5
A function that takes any argument and returns a	https://powcoder.com	None	5
function that returns that arg	print(print(5)) Add Wechat powcoder	None	5 None
<pre>def (delay(arg): print('delayed') def g(): return (arg) return g</pre>	delay(delay)()(6)()	6	delayed delayed 6
Names in nested def statements can refer to their enclosing scope	<pre>print(delay(print)()(4))</pre>	None	delayed 4 None

7

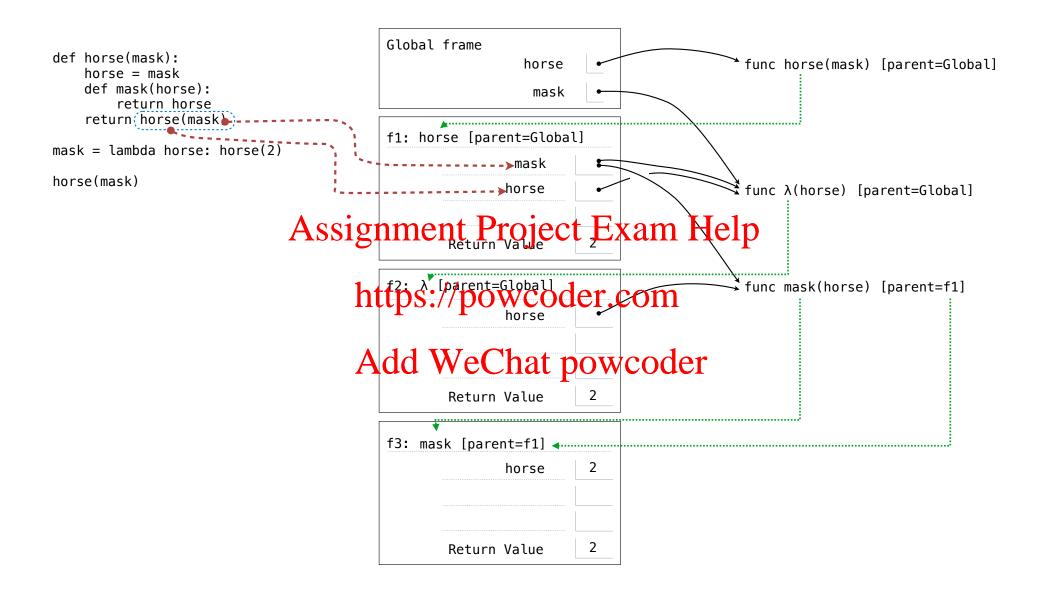
Interactive

What Would Python Print?

The print function returns None. It also displays its arguments (separated by spaces) when it is called.



A name evaluates to the value bound to that name in the earliest frame of the current environment in which that name is found.



https://poweoder.com

Implementing a Function

```
def remove(n, digit):
                                                    Read the description
    """Retung alimits of non-negative N
                        IT, for some
       231
                                                    Verify the examples & pick a simple one
                        IT less than 10.
    >>> remove(231, 3)
                                                    Read the template
                           Assignment<sub>®</sub>Pro
    21
                                                     ect Exam Help
Implement without the template, then change
    4313
                                       + 200
                                                     your implementation to match the template.
    111111
                                                     Mer.com
If the template is helpful, use it.
    kept, digits = 0, 0
    while
                                                   tAppotate other with values from your chosen example
        n, last = n // 10, n % 10
                 last != digit
                                                    Write code to compute the result

% kept + last*10**digits

                                                     Did you really return the right thing?
     231
            digits =
                                                    Check your solution with the other examples
                         kept
    return
```

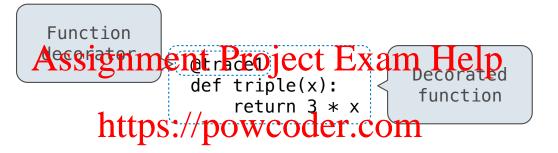
Implementing a Function

```
def remove(n, digit):
"""Return allowididits of non-negative N
                                                    Read the description
                        IT, for some
       231
                                                    Verify the examples & pick a simple one
                        IT less than 10.
    >>> remove(231, 3)
                                                    Read the template
                        Assignment Project Exam Help Implement without the template, then change
    4313
                                                    your implementation to match the template.
    111111
                                https://powcoder.com
If the template is helpful, use it.
    kept, digits = 0, 0
    while
                                                atAppotate on est with values from your chosen example
        n, last = n // 10, n % 10
                 last != digit
                                                    Write code to compute the result
                        kept/10 + last
                                                    Did you really return the right thing?
      21
            digits =
                                                    Check your solution with the other examples
             round(kept * 10 ** (digits-1))
    return
```

https://powcoder.com

Function Decorators

(Demo)



```
Why not just
use this?

def triple(x):
    return 3 * x
    triple = trace1(triple)
```