

Codecademy Python ([http://codecademy- answers.blogspot.com/](http://codecademy-python-answers.blogspot.com/))



(<http://codecademy-python-answers.blogspot.com/>) Uncategorized INTRODUCTION TO BITWISE OPERATORS - CODECADEMY PYTHON ANSWERS

INTRODUCTION TO BITWISE OPERATORS - CODECADEMY PYTHON ANSWERS

05:32 by Prathap Mutha (<https://www.blogger.com/profile/12058597255465562348>) 0 Comments A+ a-

INTRODUCTION TO BITWISE OPERATORS - CODECADEMY PYTHON ANSWERS

BINARY REPRESENTATION

1. Just a little bit

```
print 5 >> 4 # Right Shift
print 5 << 1 # Left Shift
print 8 & 5 # Bitwise AND
print 9 | 4 # Bitwise OR
print 12 ^ 42 # Bitwise XOR
print ~88 # Bitwise NOT
```

2. Lesson 10: The Base 2 Number System

```
print 0b1, #1
print 0b10, #2
print 0b11, #3
print 0b100, #4
print 0b101, #5
print 0b110, #6
print 0b111 #7
print "*****"
```

```
print 0b1 + 0b11
print 0b11 * 0b11
```

3.I can count to 1100!!

```
one = 0b1
two = 0b10
three = 0b11
four = 0b100
five = 0b101
six = 0b110
seven = 0b111
eight = 0b1000
nine = 0b1001
ten = 0b1010
eleven = 0b1011
twelve = 0b1100
```

4.The bin() function !

```
print bin(1)
print bin(prathap)
for i in range(2,6):
    print bin(i)
```

5.int()'s Second Parameter

```
print int("1",2)
print int("10",2)
print int("111",2)
print int("0b100",2)
print int(bin(5),2)
# Print out the decimal equivalent of the binary 11001001.
print 201
```

THE BITWISE OPERATORS

6.Slide to the left! Slide to the Right

```
shift_right = 0b1100
shift_left = 0b1

# Your code here!

print bin(shift_right)
print bin(shift_left)

shift_right = shift_right>>2
shift_left = shift_left<<2

print bin(shift_right)
print bin(shift_left)
```

7.A bit of this And That

```
print bin(0b1110 & 0b101)
```

8.A Bit of this Or that

```
print bin(0b1110 | 0b101)
```

9.This XOR that?

```
print bin(0b1110 ^ 0b101)
```

10.See? This is NOT that hard

```
print ~1
print ~2
print ~3
print ~42
print ~123
```

A BIT MORE COMPLICATED

11.The Man Behind The Bit Mask

```
def check_bit4(input):
    ptp = 0b1000
    desired = ptp & input
    if desired>0:
        return "on"
    else:
        return "off"
```

12.Turn It On

```
a = 0b10111011
b = 0b10111111
desired = bin(a | b)
print desired
```

13.Just Flip Out

```
a = 0b11101110
b = 0b11111111
desired = bin(a ^ b)
print desired
```

14.Slip and Slide

```
def flip_bit(number,n):  
    mask=(0b1<<n-1)  
    return bin(number^mask)
```



[Twitter](#)



[Facebook](#)



[Google](#)



[Tumblr](#)



[Pinterest](#)

Prathap
Mutha

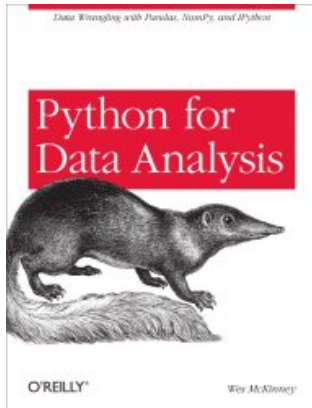


[Prathap Mutha](#)

([HTTP://WWW.BLOGGER.COM/COMMENT-IFRAME.G?
BLOGID=2819785057583154082&POSTID=1470005204649271786&BLOGSPOTRPCTOKEN=934395](http://www.blogger.com/comment-iframe.g?blogid=2819785057583154082&postid=1470005204649271786&blogspotrpcToken=934395))

[www.blogger.com/rearrange?
=2819785057583154082&widgetType=HTML&widgetId=HTML3&action=editWidget§ionId=sidebar\)](http://www.blogger.com/rearrange?ie=UTF8&camp=3626&creative=24790&creativeASIN=B009NLMB8Q&linkCode=as2&tag=alltechtutsco-21)

FOLLOW US



[_ \(http://www.amazon.in/gp/product/B009NLMB8Q/ref=as_li_tl?](http://www.amazon.in/gp/product/B009NLMB8Q/ref=as_li_tl?ie=UTF8&camp=3626&creative=24790&creativeASIN=B009NLMB8Q&linkCode=as2&tag=alltechtutsco-21)

[ie=UTF8&camp=3626&creative=24790&creativeASIN=B009NLMB8Q&linkCode=as2&tag=alltechtutsco-
21\)](http://www.amazon.in/gp/product/B009NLMB8Q/ref=as_li_tl?ie=UTF8&camp=3626&creative=24790&creativeASIN=B009NLMB8Q&linkCode=as2&tag=alltechtutsco-21)

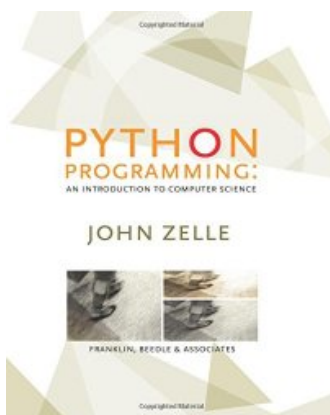


Python
Essential Reference
Fourth Edition

[_ \(http://www.amazon.in/gp/product/0672329786/ref=as_li_tl?](http://www.amazon.in/gp/product/0672329786/ref=as_li_tl?ie=UTF8&camp=3626&creative=24790&creativeASIN=0672329786&linkCode=as2&tag=alltechtutsco-21)

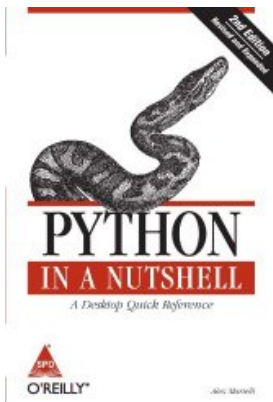


[ie=UTF8&camp=3626&creative=24790&creativeASIN=0672329786&linkCode=as2&tag=alltechtutsco-
21\)](http://www.amazon.in/gp/product/0672329786/ref=as_li_tl?ie=UTF8&camp=3626&creative=24790&creativeASIN=0672329786&linkCode=as2&tag=alltechtutsco-21)



[_ \(http://www.amazon.in/gp/product/1887902996/ref=as_li_tl?](http://www.amazon.in/gp/product/1887902996/ref=as_li_tl?ie=UTF8&camp=3626&creative=24790&creativeASIN=1887902996&linkCode=as2&tag=alltechtutsco-21)

[ie=UTF8&camp=3626&creative=24790&creativeASIN=1887902996&linkCode=as2&tag=alltechtutsco-
21\)](http://www.amazon.in/gp/product/1887902996/ref=as_li_tl?ie=UTF8&camp=3626&creative=24790&creativeASIN=1887902996&linkCode=as2&tag=alltechtutsco-21)



[http://www.amazon.in/gp/product/8184045409/ref=as li tl?](http://www.amazon.in/gp/product/8184045409/ref=as_li_tl?ie=UTF8&camp=3626&creative=24790&creativeASIN=8184045409&linkCode=as2&tag=alltechtutsco-21)


[www.blogger.com/rearrange?](http://www.blogger.com/rearrange?ie=UTF8&camp=3626&creative=24790&creativeASIN=8184045409&linkCode=as2&tag=alltechtutsco-21)
[=2819785057583154082&widgetType=HTML&widgetId=HTML2&action=editWidget§ionId=sidebar\)](http://www.blogger.com/rearrange?ie=UTF8&camp=3626&creative=24790&creativeASIN=8184045409&linkCode=as2&tag=alltechtutsco-21)

POPULAR POSTS

[codecademy Python Answers](http://codecademy-python-answers.blogspot.com/2016/03/battleship-codecademy-python-answers.html) (<http://codecademy-python-answers.blogspot.com/2016/03/battleship-codecademy-python-answers.html>)
Battleship !!!

[Codecademy Battleship Answers](http://codecademy-python-answers.blogspot.com/2016/03/battleship-codecademy-python-answers.html) (<http://codecademy-python-answers.blogspot.com/2016/03/battleship-codecademy-python-answers.html>)

[Codecademy Lists and Functions Answers](http://codecademy-python-answers.blogspot.com/2016/03/lists-and-functions-codecademy-python.html) (<http://codecademy-python-answers.blogspot.com/2016/03/lists-and-functions-codecademy-python.html>)

 (<http://codecademy-python-answers.blogspot.com/2016/03/loops-codecademy-python-answers.html>) **LOOPS -**
codecademy Python /
Loops

[CODECADEMY PYTHON ANSWERS](http://codecademy-python-answers.blogspot.com/2016/03/loops-codecademy-python-answers.html) (<http://codecademy-python-answers.blogspot.com/2016/03/loops-codecademy-python-answers.html>)

[CLASSES - CODECADEMY PYTHON ANSWERS](http://codecademy-python-answers.blogspot.com/2016/03/classes-codecademy-python-answers.html) (<http://codecademy-python-answers.blogspot.com/2016/03/classes-codecademy-python-answers.html>)

[FILE INPUT/OUTPUT - CODECADEMY PYTHON ANSWERS](http://codecademy-python-answers.blogspot.com/2016/03/file-inputoutput-codecademy-python.html) (<http://codecademy-python-answers.blogspot.com/2016/03/file-inputoutput-codecademy-python.html>)

[PRACTICE MAKES PERFECT - PYTHON CODECADEMY ANSWERS](http://codecademy-python-answers.blogspot.com/2016/03/practice-makes-perfect-python.html) (<http://codecademy-python-answers.blogspot.com/2016/03/practice-makes-perfect-python.html>)

[INTRODUCTION TO CLASSES - CODECADEMY PYTHON ANSWERS](http://codecademy-python-answers.blogspot.com/2016/03/introduction-to-classes-codecademy.html) (<http://codecademy-python-answers.blogspot.com/2016/03/introduction-to-classes-codecademy.html>)

[Pyglatin - Codecademy Python Answers](http://codecademy-python-answers.blogspot.com/2016/03/pyglatin-codecademy-python-answers.html) (<http://codecademy-python-answers.blogspot.com/2016/03/pyglatin-codecademy-python-answers.html>)

[FUNCTIONS - CODECADEMY PYTHON ANSWERS](http://codecademy-python-answers.blogspot.com/2016/03/functions-codecademy-python-answers.html) (<http://codecademy-python-answers.blogspot.com/2016/03/functions-codecademy-python-answers.html>)

[INTRODUCTION TO BITWISE OPERATORS - CODECADEMY PYTHON ANSWERS](http://codecademy-python-answers.blogspot.com/2016/03/introduction-to-bitwise-operators.html) (<http://codecademy-python-answers.blogspot.com/2016/03/introduction-to-bitwise-operators.html>)

[m/rearrange?](http://www.blogger.com/rearrange?ie=UTF8&camp=3626&creative=24790&creativeASIN=8184045409&linkCode=as2&tag=alltechtutsco-21)

3154082&widgetType=PopularPosts&widgetId=PopularPosts1&action=editWidget§ionId=sidebar)

SUBSCRIBE

www.blogger.com/rearrange?

=2819785057583154082&widgetType=HTML&widgetId=HTML5&action=editWidget§ionId=sidebar)

PINTEREST

www.blogger.com/rearrange?

=2819785057583154082&widgetType=HTML&widgetId=HTML1&action=editWidget§ionId=sidebar)

SOCIAL PROFILE ICONS (DO NOT EDIT HERE!)

v.blogger.com/rearrange?

819785057583154082&widgetType=HTML&widgetId=HTML102&action=editWidget§ionId=sidebar)

.com/rearrange?

Powered by **Blogger** (<https://www.blogger.com>).

7583154082&widgetType=Attribution&widgetId=Attribution1&action=editWidget§ionId=sidebar)



0

More

[Next Blog»](#)

[Create Blog](#)

[Sign In](#)