Python les-materialen

# Statements Assessment Solutions

**Use for, .split(), and if to create a Statement that will print out words that start with ‘s’:**

st = 'Print only the words that start with s in this sentence'

for word in st.split():  
 if word[0] == 's':  
 print(word)

start  
s  
sentence

**Use range() to print all the even numbers from 0 to 10.**

list(range(0,11,2))

[0, 2, 4, 6, 8, 10]

**Use List comprehension to create a list of all numbers between 1 and 50 that are divisible by 3.**

[x for x in range(1,51) if x%3 == 0]

[3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42, 45, 48]

**Go through the string below and if the length of a word is even print “even!”**

st = 'Print every word in this sentence that has an even number of letters'

for word in st.split():  
 if len(word)%2 == 0:  
 print(word+" <-- has an even length!")

word <-- has an even length!  
in <-- has an even length!  
this <-- has an even length!  
sentence <-- has an even length!  
that <-- has an even length!  
an <-- has an even length!  
even <-- has an even length!  
number <-- has an even length!  
of <-- has an even length!

**Write a program that prints the integers from 1 to 100. But for multiples of three print “Fizz” instead of the number, and for the multiples of five print “Buzz”. For numbers which are multiples of both three and five print “FizzBuzz”.**

for num in range(1,101):  
 if num % 3 == 0 and num % 5 == 0:  
 print("FizzBuzz")  
 elif num % 3 == 0:  
 print("Fizz")  
 elif num % 5 == 0:  
 print("Buzz")  
 else:  
 print(num)

1  
2  
Fizz  
4  
Buzz  
Fizz  
7  
8  
Fizz  
Buzz  
11  
Fizz  
13  
14  
FizzBuzz  
16  
17  
Fizz  
19  
Buzz  
Fizz  
22  
23  
Fizz  
Buzz  
26  
Fizz  
28  
29  
FizzBuzz  
31  
32  
Fizz  
34  
Buzz  
Fizz  
37  
38  
Fizz  
Buzz  
41  
Fizz  
43  
44  
FizzBuzz  
46  
47  
Fizz  
49  
Buzz  
Fizz  
52  
53  
Fizz  
Buzz  
56  
Fizz  
58  
59  
FizzBuzz  
61  
62  
Fizz  
64  
Buzz  
Fizz  
67  
68  
Fizz  
Buzz  
71  
Fizz  
73  
74  
FizzBuzz  
76  
77  
Fizz  
79  
Buzz  
Fizz  
82  
83  
Fizz  
Buzz  
86  
Fizz  
88  
89  
FizzBuzz  
91  
92  
Fizz  
94  
Buzz  
Fizz  
97  
98  
Fizz  
Buzz

**Use a List Comprehension to create a list of the first letters of every word in the string below:**

st = 'Create a list of the first letters of every word in this string'

[word[0] for word in st.split()]

['C', 'a', 'l', 'o', 't', 'f', 'l', 'o', 'e', 'w', 'i', 't', 's']

### Great Job!