

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!