

SECTION 5; PYTHON STATEMENTS, 1 hour 15 mins, 7 Parts

• 7/7 Python Statements Test Solutions

- -> there is a statement (a sentence) -> st = '...'
- -> st.split() <- this makes every word in the sentence into an element in a list
- -> **for word in st.split(): <- we're iterating through elements in that list**
 - if word[0].lower() == 's' or word[0]=='S': <- if the string starts with s
 - print(word) <- then print the word starting with ti
 - -> **so**
 - we've taken a sentence
 - -> made the words into the sentence into the elements in an array
 - -> each element in the array / list is a word in the sentence
 - -> then we're saying if the first letter of that element in the list begins with s or S, print the entire word
 - -> do that by iterating through the entire sentence
- -> **use range to print all the even numbers from 0-10**
 - -> list(range(0,11,2))
 - -> another one is for num in range(0,11,2):
 - print(num)
- -> **list comprehensions to make a list of all the numbers between 1 and 50 which are divisible by 3**
 - -> for word in st.split():
 - if len(word) %2 ==0:
 - print(word+ 'is even!')
- -> **fizzbuzz question**
 - -> integers from 0-100
 - -> replace integers with words when they are multiples of 3, 5 or 3 and 5
 - -> **for num in range(1,101):**
 - -> instead of checking for 3 and 5 -> you could be getting multiples of 3 in here by accident
 - -> 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)
- -> **list comprehension to create a list of the terms below it**
 - [for word[0] in st.split()) <- indexing for 0 then this returns the first term in the string

