

SECTION 3: PYTHON OBJECT AND DATA STRUCTURE BASICS, 2 hrs 2 mins, 33 parts

• 9/36 Indexing and Slicing with Strings

- -> mystring = "Hello World"
- -> mystring
- -> mystring[0]
 - 'H'
 - print the first letter in the entire thing
- -> mystring[8] -> returns r
 - the space counts
 - indexing
- -> for the l
 - mystring[9]
 - alt. mystring[-2] -> this means 'count backwards'
 - if you didn't want to count the number of characters -> you would use len and times it by -1 etc
- -> using the length of the string
 - -> **mystring = 'abcdefghijk'**
 - -> **mystring** returns it with the **'''s** (when you don't use print and instead just type the name of the variable which represents the str -> it returns the **'''s/ ""'s**)
 - -> mystring[2] -> 'c'
 - -> alt. mystring[2:] <- from the c to the end
 - -> alt. mystring[:3]
 - 'abc'
 - in other words, stop up to but not including that index position
 - -> mystring -> this returns the entire thing
 - -> combining the start and stop index
 - -> mystring[3:6] <- from the 3rd to the 6th character (aka letter) in the string
 - -> it's returning the results in **'''s** (it's printing the **'''s**)
 - -> **mystring[:] <- returns the entire thing (from the start to the end)**
 - -> **this returns the result in **'''s** as well**
 - -> **[::2]** would return every second character
 - -> i.e you can increase the step index etc (step size) - this can be used for manipulating data
 - -> **mystring[::-1] -> this prints out the entire thing backwards (from the beginning to the end, go backwards) -> rather than doing a for loop, e.g**