Model 2 Lists

A variable can hold multiple values in the form of a *list*. The values are separated by commas and wrapped in square brackets. For example:

Each *element* of the list can be referenced by an *index*, which is the sequential position starting at 0. For example, primes [4] is 11.

index	0	1	2	3	4	5	6	7	8	9
value	2	3	5	7	11	13	17	19	23	29

Do not type anything yet! Read the questions first!

Python code	Shell output
odd = [1, 3, 5, 7]	
odd	
odd[2]	
odd[4]	
len(odd)	
number = odd[1]	
number	
odd[1] = 2	
odd	
number	

Questions (10 min)

Start time:

11. What is the index of the second element of primes? What is the value at that index?

12. How does the index number compare to the position of the element?

abo	Type each line of code in a Python Shell and write the corresponding output in the space ove. If an error occurs, write what type of error. Place an asterisk (*) next to any output for ich you were surprised.
14.	How did you reference the value of the 3rd element of odd?
15.	What did the output of the len() function tell you about the list?
16.	One of the lines in Model 2 displayed an error. Explain the reason for the error.
17 .	Write a statement that assigns a list of three integers to the variable run.
18.	Write a statement that assigns the value 100 to the last element of run.
19.	Write a statement that assigns the first value of run to a variable named first.