CS111 Lab 05 L O O P S

| Ex 1: Repeating code a certain number of times ```num = 4 while num > 0: print('cs') num = num - 1``` | Ex 2: Another while loop ```num = 4 while num > 0: print(num) num = num - 1``` |
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| Ex 3: While loop w/user input ```name = input('your name?') while name != 'beyonce': print('waiting for bey') name = input('your name?') print('hello beyonce!')``` <br> What happens when user types Becky? | Ex 4: Given addEmUp, predict the outcome of the two invocations and write the docstring below. ```# accumulator (gathers stuff up inside the loop) def addEmUp(number): """ """ count = 0 num = 1 while num <= number: # accumulating here count = count + num num = num + 1 return count >>> addEmUp(0) >>> addEmUp(4)``` |
| FOR LOOPS and range |  |
| Ex 5: For loop with a list ```for num in [2,4,6,8]: print(num)``` | Python's built-in range function returns a range of numbers. <br> >>> list (range (5)) <br> >>> list (range (5, 10)) <br> >>> list (range (2, 10, 3)) |
| Ex 6: Repeating code a certain number of times w/for loop ```for _ in range(5): print('cs')``` | Exs 7a\&b: Stepping through each number in range $\begin{aligned} & \text { \|for num in range (4): for num in range }(4,0,-1) \text { : } \\ & \text { print (num) } \end{aligned}$ |


| Ex 8: Stepping through each letter in a <br> string | Ex 9: Stepping through each letter in a string |
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| for letter in 'blue' : <br> print (letter) | for letter in 'blue' [::-1]: <br> print(letter) |

