```
In [14]: greeting = "Hello Everyone"
In [22]: greeting_letters = []
         for letter in greeting:
            greeting_letters.append(letter)
         print(greeting_letters)
         ['H', 'e', 'l', 'l', 'o', ' ', 'E', 'v', 'e', 'r', 'y', 'o', 'n', 'e']
In [23]: #using list comprehension
         greeting letters2 = [x for x in greeting]
         print(greeting letters2)
         ['H', 'e', 'l', 'l', 'o', ' ', 'E', 'v', 'e', 'r', 'y', 'o', 'n', 'e']
In [21]: my letters = [letter for letter in "Kaveh"]
         print(my_letters)
         ['K', 'a', 'v', 'e', 'h']
In [20]: # You can also use range()
         my_numbers = [x for x in range(0,15)]
         print(my_numbers)
         [0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14]
In [27]: # You can change the items u r adding too
         my numbers = [x**2  for x  in range (0,5)]
         print(my numbers)
         [0, 1, 4, 9, 16]
In [30]: # You can also use if and else!
         numbers = [num for num in range(0,30) if num % 2 == 1]
         print(numbers)
         [1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29]
In [37]: #Change the letters to upper and add them to a list
         my sentence = "i like pizza"
         my_list = [x.upper() for x in my_sentence]
         my_list
Out[37]: ['I', ' ', 'L', 'I', 'K', 'E', ' ', 'P', 'I', 'Z', 'Z', 'A']
In []: # Create a list of all the words containing 'a' in the string bellow
         my string = "Programming with python is enjoyable a lot"
         my_list = [x for x in my_string.split(" ") if 'a' in x]
         my_list
In [39]: nums1 = [100, 200, 300]
         nums2 = [3, 5, 7]
         my_list = [x*y for x in nums1 for y in nums2]
         my_list
Out[39]: [300, 500, 700, 600, 1000, 1400, 900, 1500, 2100]
In [45]: #Some Bonus!
         my list = [x if x % 5 != 0 else "Hop" for x in range(0,10)]
         my_list
Out[45]: ['Hop', 1, 2, 3, 4, 'Hop', 6, 7, 8, 9]
In [ ]:
In [ ]:
In [ ]:
 In [ ]:
```