In [1]: mylist = [1,2,3]In [3]: **for** num **in** range(10): #all the way upto but not incude 10 print(num) 0 1 2 3 5 6 7 8 9 In [4]: **for** num **in** range(3,10): #all the way upto but not incude 10 print(num) 3 4 5 6 7 8 9 In [6]: **for** num **in** range(0,10,2): #all the way upto but not incude 10 also include step size print(num) 0 2 4 8 In [7]: range(0,10,2) range(0, 10, 2) Out[7]: In [8]: list(range(0,10,2)) [0, 2, 4, 6, 8] Out[8]: In [9]: index_count = 0 for letter in 'abcde': print('At index {} the letter is {}'.format(index_count,letter)) index_count += 1 At index 0 the letter is a At index 1 the letter is b At index 2 the letter is c At index 3 the letter is d At index 4 the letter is e In [11]: index_count = 0 word = 'abcde' for letter in enumerate(word): print(word[index_count]) index_count += 1 b С d In [13]: word = 'abcde' for item in enumerate(word): print(item) (0, 'a') (1, 'b') (2, 'c') (3, 'd') (4, 'e') In [16]: #tuple unpacking word = 'abcde' for index,letter in enumerate(word): print(index) print(letter) print('\n') 0 а 1 b 2 С 3 d 4 е In [17]: mylist1 = [1,2,3]mylist2 = ['a', 'b', 'c'] In [18]: zip(mylist1, mylist2) <zip at 0x1d50de1c3c0> Out[18]: In [19]: for item in zip(mylist1, mylist2): print(item) (1, 'a') (2, 'b') (3, 'c') In [20]: mylist1 = [1,2,3,4,5,6]mylist2 = ['a', 'b', 'c'] mylist3 = [110, 220, 330]In [23]: **for** item **in** zip(mylist1, mylist2, mylist3): #which is the shortest list print(item) (1, 'a', 110) (2, 'b', 220) (3, 'c', 330) In [24]: list(zip(mylist1, mylist2)) Out[24]: [(1, 'a'), (2, 'b'), (3, 'c')] In [27]: #unpacking for a,b,c in zip(mylist1,mylist2,mylist3): print(b) a b In [28]: 'x' in [1,2,3] Out[28]: False In [29]: 'x' in ['x','y','z'] Out[29]: True In [30]: 2 in [1,2,3] Out[30]: True In [31]: 'a' **in** 'a word' Out[31]: True In [32]: 'mykey' in {'mykey':345} Out[32]: True In [33]: 3 in {'mykey':345} Out[33]: False In [34]: 345 in {'mykey':345} Out[34]: False In [36]: d ={'mykey':345} 345 in d.values() Out[36]: True In [37]: d ={'mykey':345} 345 **in** d.keys() Out[37]: False In [38]: mylist = [10,20,30,40,100] In [39]: min(mylist) Out[39]: **10** In [40]: max(mylist) Out[40]: **100** In [41]: **from** random **import** shuffle In [54]: mylist = [1,2,3,4,5,6,7,8,9,10]In [55]: shuffle(mylist) In [56]: mylist Out[56]: [3, 2, 4, 8, 10, 1, 9, 6, 7, 5] In [57]: random_list = shuffle(mylist) In [58]: type(random_list) Out[58]: NoneType In [59]: mylist Out[59]: [2, 9, 1, 8, 5, 4, 7, 10, 6, 3] In [60]: **from** random **import** randint In [61]: randint(0,100) Out[61]: 3 In [62]: randint(0,100) Out[62]: 32 In [63]: mynum = randint(0,10) In [64]: mynum Out[64]: 1 In [67]: input('enter a number here: ') enter a number here: 4 Out[67]: '4' In [72]: results = input('what is your name? ') what is your name? suma In [73]: results Out[73]: In [74]: result = input('favorite number: ') favorite number: 5 In [75]: result Out[75]: '5' In [76]: type(result) Out[76]: str In [77]: float(result) Out[77]: 5.0 In [78]: int(result) Out[78]: 5 In [80]: result = int(input('enter a number ')) enter a number 6 In [81]: result Out[81]: 6 In [82]: type(result) Out[82]: int

In []: +