## Syntax of a for loop $my_iterable = [1,2,3]$ for item\_name in my\_iterable: print(item\_name) In [1]: mylist = [1,2,3,4,5,6,7,8,9,10]In [2]: for num in mylist: print(num) 1 2 3 5 6 7 8 9 10 In [6]: **for** num **in** mylist: print('hello') hello In [8]: for num in mylist: #check for even **if** num%2==0: print(num) 2 4 6 8 10 In [12]: #check for even or odd for num in mylist: **if** num%2 == 0: print(f'even number: {num}') else: print(f'odd number: {num}') odd number: 1 even number: 2 odd number: 3 even number: 4 odd number: 5 even number: 6 odd number: 7 even number: 8 odd number: 9 even number: 10 In [14]: | list\_sum = 0 for num in mylist: list\_sum = list\_sum + num print(list\_sum) 1 3 6 10 15 21 28 36 45 55 In [15]: | list\_sum = 0 for num in mylist: list\_sum = list\_sum + num print(list\_sum) 55 In [16]: mystring = 'hello world' for letter in mystring: print(letter) 1 In [18]: for letter in 'hello world': print('cool!!') cool!! In [20]: tup = (1,2,3)for item in tup: print(item) 1 2 In [21]: mylist = [(1,2),(3,4),(5,6)]In [22]: **for** item in mylist: print(item) (1, 2)(3, 4)(5, 6)In [23]: #tuple unpacking for (a,b) in mylist: print(a) print(b) 1 2 3 4 In [26]: #tuple unpacking for (a,b) in mylist: print(a) 1 3 5 In [27]: #tuple unpacking for (a,b) in mylist: print(b) 2 4 6 In [29]: mylist = [(1,2,3),(5,6,7),(8,9,10)]In [31]: #tuple unpacking for (a,b,c) in mylist: print(c) 3 7 10 In [32]: d = {'k1':1, 'k2':2, 'k3':3} for item in d: print(item) k1 k2 k3 In [33]: for item in d.keys(): print(item) k1 k2 k3 In [35]: for item in d.values(): print(item) 1 2 In [36]: for item in d.items(): print(item) ('k1', 1) ('k2', 2) ('k3', 3) In [41]: d = {'k1':1, 'k2':2, 'k3':3}

for key, value in d.items():

print(value)

1 2 3