Out[11]: 4 In [13]: float(25/6) Out[13]: 4.16666666666667 In [14]: total_min=43+42+57 In [15]: total_hr=total_min/60 In [17]: total_hr Out[17]: 2.366666666666667 In [21]: Name=("Michael Jackson") In [25]: Name[0] Out[25]: 'M' In [27]: Name[6] Out[27]: '1' In [28]: Name[0:4] Out[28]: 'Mich' In [29]: Name[8:12] Out[29]: 'Jack' In [30]: Name[::2] Out[30]: 'McalJcsn' In [31]: Name[::3] Out[31]: 'Mhlas' In [32]: Name[0:5:2] Out[32]: 'Mca' In [35]: statement=Name+" is the best" In [36]: statement Out[36]: 'Michael Jackson is the best' 3*"michael jackson In [37]: 3*Name Out[37]: 'Michael JacksonMichael JacksonMichael Jackson' In [39]: A="vaibhav pritmani" In [41]: B=A.replace('vaibhav','janet') In [42]: B Out[42]: 'janet pritmani' In [43]: Name.find('el') Out[43]: 5 In [45]: Name.find('Jack') Out[45]: 8 In [46]: A.find('mani') Out[46]: 12 In [47]: X="0123456" In [48]: X[::2] Out[48]: '0246' In [50]: X[::3] Out[50]: '036' In [51]: "0123456".find('1') Out[51]: 1 In [52]: 3+2*2 Out[52]: 7 In [1]: Name='lizz' In [2]: print(Name[0:2]) li In [3]: var='0123456' In [4]: print(var[::2]) 0246 In [5]: '1'+'2' Out[5]: '12' In [6]: myvar='hello' In [7]: myvar.upper() Out[7]: 'HELLO' In [1]: tuple=("disco",10,1.2) In [2]: tuple Out[2]: ('disco', 10, 1.2) In [5]: tuple[0]:"disco" In [6]: tuple[1]:10 In [7]: tuple[2]:1.2 In [8]: tuple Out[8]: ('disco', 10, 1.2) In [9]: tuple2=tuple+("hard rock",10) In [10]: tuple Out[10]: ('disco', 10, 1.2) In [11]: tuple2 Out[11]: ('disco', 10, 1.2, 'hard rock', 10) In [12]: tuple2[0:3] Out[12]: ('disco', 10, 1.2) In [13]: tuple2[3:5] Out[13]: ('hard rock', 10) In [18]: NT=(1,2,("pop","rock"),(3,4),("disco",(1,2))) In [20]: NT[2][0] Out[20]: 'pop' In [21]: NT[2][1] Out[21]: 'rock' In [22]: NT[3][0] Out[22]: 3 In [23]: NT[3][1] Out[23]: 4 In [24]: NT[4][1] Out[24]: (1, 2) In [25]: NT[4][0] Out[25]: 'disco' In [26]: B=["a", "b", "c"] In [27]: B[1:] Out[27]: ['b', 'c'] In [28]: B[2:] Out[28]: ['c'] In [29]: L=["michael jakson",10.1,1982] In [30]: L[0] Out[30]: 'michael jakson' In [31]: L[1] Out[31]: 10.1 In [32]: L[2] Out[32]: 1982 In [33]: L.extend(["MJ",1]) In [34]: L Out[34]: ['michael jakson', 10.1, 1982, 'MJ', 1] In [35]: L[3:5] Out[35]: ['MJ', 1] In [36]: L.append(["MJ",1]) In [38]: L.append("A") In [39]: L Out[39]: ['michael jakson', 10.1, 1982, 'MJ', 1, ['MJ', 1], 'A'] In [40]: A=["disco",10,1.2] In [41]: A[0] Out[41]: 'disco' In [42]: A[0]="hard rock" In [43]: A Out[43]: ['hard rock', 10, 1.2] In [44]: del(A[0]) In [46]: A Out[46]: [10, 1.2] In [47]: A=["hard rock",10,1.2] In [48]: "hard rock".split() Out[48]: ['hard', 'rock'] In [49]: string="A,B,C,D" In [50]: string="A,B,C,D".split(",") In [51]: string Out[51]: ['A', 'B', 'C', 'D'] In [52]: B=A In [53]: B[0] Out[53]: 'hard rock' In [54]: A[0]="banana" In [55]: B[0] Out[55]: 'banana' In [56]: B=A[:] In [57]: B[2] Out[57]: 1.2 In [58]: B[0] Out[58]: 'banana' In [59]: A[0]="sexy" In [60]: B[0] Out[60]: 'banana' sets In [1]: set={"pop","rock","soul","hard rock","rock","R&B","rock","disco"} In [2]: set Out[2]: {'R&B', 'disco', 'hard rock', 'pop', 'rock', 'soul'} In [21]: list=["michael jackson","thriller","thriller",1982] In [22]: Out[22]: ['michael jackson', 'thriller', 'thriller', 1982] In []: In [43]: album_set.set(list) Traceback (most recent call last) <ipython-input-43-31056aa11452> in <module> ----> 1 album_set.set(list) NameError: name 'album_set' is not defined In [30]: A={"Thriller", "black in black", "AC/DC"} In [31]: A.add("NSYNS") In [32]: A Out[32]: {'AC/DC', 'NSYNS', 'Thriller', 'black in black'} In [33]: A.remove("NSYNS") In [34]: A Out[34]: {'AC/DC', 'Thriller', 'black in black'} In [35]: "AC/DC" in A Out[35]: True In [36]: "WHo" in A Out[36]: False In [37]: album_set_1={"AC/DC", "Back in black", "thriller"} In [38]: album_set_2={"AC/DC", "Back in black", "the dark side of the moon"} In [39]: album_set_3=album_set_1&album_set_2 In [40]: album_set_3 Out[40]: {'AC/DC', 'Back in black'} In [42]: album_set_1.union(album_set_2) Out[42]: {'AC/DC', 'Back in black', 'the dark side of the moon', 'thriller'} In [44]: album_set_3.issubset(album_set_1) Out[44]: True In [45]: album_set_3.issubset(album_set_2) Out[45]: True practical questions In [46]: S={'A', 'B', 'C'} In [47]: U={'A', 'Z', 'C'} In [48]: U.union(S) Out[48]: {'A', 'B', 'C', 'Z'} **DICTIONARIES** In [1]: dic={"thriller":1982,"back in black":1980,"the dark side of the moon":1973,"the bodyguard":1 In [3]: dic["thriller"] Out[3]: 1982 In [5]: dic["the dark side of the moon"] Out[5]: 1973 In [7]: dic['GRADUATION']=2007 In [8]: dic Out[8]: {'thriller': 1982, 'back in black': 1980, 'the dark side of the moon': 1973, 'the bodyguard': 1992, 'GRADUATION': 2007} In [10]: del(dic["thriller"]) In [11]: dic Out[11]: {'back in black': 1980, 'the dark side of the moon': 1973, 'the bodyguard': 1992, 'GRADUATION': 2007} In [12]: "the bodyguard"in dic Out[12]: True In [13]: "the isolation" in dic Out[13]: False In [14]: dic.keys() Out[14]: dict_keys(['back in black', 'the dark side of the moon', 'the bodyguard', 'GRADUATION']) In [16]: dic.values() Out[16]: dict_values([1980, 1973, 1992, 2007]) **Practice Question** In [18]: D={"a":0, "b":1, "c":2} In [19]: D.values() Out[19]: dict_values([0, 1, 2]) In [20]: D={"a":0,"b":1,"c":2} In [21]: D["b"] Out[21]: 1 **Review Questions** In [22]: A=("a", "b", "c") In [23]: A[0] Out[23]: 'a' In [24]: Dict={"A":1, "B":2, "C":[333], "D":(444), "E":5, "F":6} In [25]: Dict Out[25]: {'A': 1, 'B': 2, 'C': [333], 'D': 444, 'E': 5, 'F': 6} In [26]: Dict["D"] Out[26]: 444 In []:

In [4]: print("hello\nworld!")

print('Hello World')

hello world!

In [11]: int(25//6)