String operations In [1]: "Micheal Jackson" 'Micheal Jackson' Out[1]: In [2]: 'Micheal Jachson' 'Micheal Jachson' Out[2]: In [3]: '1 2 3 4 5 6 ' '1 2 3 4 5 6 ' Out[3]: In [4]: '@#2_#]&*\$%' '@#2_#]&*\$%' Out[4]: In [5]: print("hello!") hello! In [6]: name="Michael Jackson" 'Michael Jackson' Out[6]: In [7]: print(name[0]) In [8]: print(name[6]) In [9]: print(name[13]) In [10]: print(name[-1]) In [11]: print(name[-15]) In [12]: len("Michael Jackson") Out[12]: 15 In [13]: name[0:4] Out[13]: In [14]: name[8:12] 'Jack' Out[14]: In [16]: name[::2] 'McalJcsn' Out[16]: In [17]: name[0:5:2] Out[17]: In [20]: S =name + "is the best" 'Michael Jacksonis the best' Out[20]: In [21]: 3*"Michael Jackson" 'Michael JacksonMichael JacksonMichael Jackson' Out[21]: In [22]: name="Michael Jackson" name=name + "is the best" 'Michael Jacksonis the best' Out[22]: In [24]: print("Michael Jackson \n is the best") Michael Jackson is the best In [25]: print("Michael Jackson \t is the best") Michael Jackson is the best In [28]: print("Michael Jackson \\ is the best") Michael Jackson \ is the best In [29]: print(r"Michael Jackson \ is the best") Michael Jackson \ is the best In [30]: a= "Thriller is the sixth studio album" print("before upper:",a) b=a.upper() print("After upper:",b) before upper: Thriller is the sixth studio album After upper: THRILLER IS THE SIXTH STUDIO ALBUM In [31]: a="Michael Jackson is the best" b=a.replace('Michael','Janet') 'Janet Jackson is the best' Out[31]: In [32]: name="Michael Jackson" name.find('el') Out[32]: 5 In [33]: name.find('Jack') Out[33]: 8 In [34]: name.find('Jasdfasdasdf') Out[34]: -1 Tuples in python In [35]: tuple1=("disco",10,1.2) tuple1 ('disco', 10, 1.2) Out[35]: type(tuple1) tuple Out[36]: In [37]: print(tuple1[0]) print(tuple1[1]) print(tuple1[2]) disco 10 1.2 In [38]: print(type(tuple1[0])) print(type(tuple1[1])) print(type(tuple1[2])) <class 'str'> <class 'int'> <class 'float'> In [39]: tuple1[-1] Out[39]: 1.2 In [40]: tuple1[-2] Out[40]: **10** In [41]: tuple1[-3] 'disco' Out[41]: In [42]: tuple2=tuple1 +("hard rock",10) tuple2 Out[42]: ('disco', 10, 1.2, 'hard rock', 10) In [43]: tuple2[0:3] Out[43]: ('disco', 10, 1.2) In [44]: tuple2[3:5] ('hard rock', 10) Out[44]: In [45]: len(tuple2) Out[45]: 5 In [46]: Ratings=(0,9,6,5,10,8,9,6,2) In [47]: RatingsSorted=sorted(Ratings) RatingsSorted [0, 2, 5, 6, 6, 8, 9, 9, 10] Out[47]: NestedT=(1,2,("pop","rock"),(3,4),("disco",(1,2))) In [49]: print("Element 0 of Tuple:", NestedT[0]) print("Element 1 of Tuple:", NestedT[1]) print("Element 2 of Tuple:", NestedT[2]) print("Element 3 of Tuple:", NestedT[3]) print("Element 4 of Tuple:", NestedT[4]) Element 0 of Tuple: 1 Element 1 of Tuple: 2 Element 2 of Tuple: ('pop', 'rock') Element 3 of Tuple: (3, 4) Element 4 of Tuple: ('disco', (1, 2)) In [50]: print("Element 2,0 of Tuple:", NestedT[2][0]) print("Element 2,1 of Tuple:", NestedT[2][1]) print("Element 3,0 of Tuple:", NestedT[3][0]) print("Element 3,1 of Tuple:", NestedT[3][1]) print("Element 4,0 of Tuple:", NestedT[4][0]) print("Element 4,1 of Tuple:", NestedT[4][1]) Element 2,0 of Tuple: pop Element 2,1 of Tuple: rock Element 3,0 of Tuple: 3 Element 3,1 of Tuple: 4 Element 4,0 of Tuple: disco Element 4,1 of Tuple: (1, 2) In [52]: NestedT[2][1][0] Out[52]: In [53]: NestedT[2][1][1] Out[53]: In [54]: NestedT[4][1][0] Out[54]: 2 In [55]: NestedT[4][1][1] Out[55]: 2