pythonBasicday2

July 21, 2023

```
[1]: 1 = [1,123,"arnob", 'A',34.33]
 [1]: [1, 123, 'arnob', 'A', 34.33]
 [3]: 12= 2
      1+12
      TypeError
                                                 Traceback (most recent call last)
      Cell In [3], line 2
             1 12= 2
       ----> 2 1+12
       TypeError: can only concatenate list (not "int") to list
 [4]: type(1)
 [4]: list
 [8]: type(12)
 [8]: int
[11]: 1
[11]: [1, 123, 'arnob', 'A', 34.33]
[18]: s = "pwskills"
[19]: list(s)
[19]: ['p', 'w', 's', 'k', 'i', 'l', 'l', 's']
[26]: 12 = [1,123,"pwskills", 12.56]
      12[2][1:3:1]
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[26]: 'ws'
[27]: 1+5
      TypeError
                                                  Traceback (most recent call last)
      Cell In [27], line 1
       ----> 1 1+5
      TypeError: can only concatenate list (not "int") to list
[28]: 1+12
[28]: [1, 123, 'arnob', 'A', 34.33, 1, 123, 'pwskills', 12.56]
[48]: 1 = [1,2,3]
      1*3
[48]: [1, 2, 3, 1, 2, 3, 1, 2, 3]
[49]: 1.append(6)
[50]: 1
[50]: [1, 2, 3, 6]
[51]: 1
[51]: [1, 2, 3, 6]
[52]: 1 = [1,2,3]
      s = "pwskills"
      1.append(s)
[53]: 1
[53]: [1, 2, 3, 'pwskills']
[55]: 11 = [1, 2, 3, " Arnob "]
      12 = [1,2,3]
      11.append(12)
[55]: [1, 2, 3, 'Arnob', [1, 2, 3]]
[56]: 11
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[56]: [1, 2, 3, 'Arnob', [1, 2, 3]]
[58]: 11[4][1:2]
[58]: [2]
[81]: 11[4][:-1]
[81]: [1, 2]
[82]: 1
[82]: [1, 2, 3, 'pwskills']
[83]: 12 = 4
      11.append(12)
[85]: 1
[85]: [1, 2, 3, 'pwskills']
[11]: 1 = [1,2,3, "pwskills"]
      1
[11]: [1, 2, 3, 'pwskills']
[12]: s = "arnob"
      1.append(s)
[12]: [1, 2, 3, 'pwskills', 'arnob']
[13]: 1.extend(s)
      1
[13]: [1, 2, 3, 'pwskills', 'arnob', 'a', 'r', 'n', 'o', 'b']
[14]: 1[-1]
[14]: 'b'
[15]: 1
[15]: [1, 2, 3, 'pwskills', 'arnob', 'a', 'r', 'n', 'o', 'b']
[17]: s
```

```
[17]: 'arnob'
[21]: | 1 = [1,2,3,"pwskills"]
      s = [4,5,6]
      1.append(s)
[21]: [1, 2, 3, 'pwskills', [4, 5, 6]]
[22]: 1[4][1]
[22]: 5
[37]: 1 = [1,2,3]
      1.insert(1,"arnob")#1.index then 2.value
[37]: [1, 'arnob', 2, 3]
[38]: 1.insert(2,"My queen")
[38]: [1, 'arnob', 'My queen', 2, 3]
[39]: 1.insert(-1,[10,44])
[39]: [1, 'arnob', 'My queen', 2, [10, 44], 3]
[40]: 1
[40]: [1, 'arnob', 'My queen', 2, [10, 44], 3]
[56]: l= [1, 'arnob', 'My queen', 2, [10, 44], 3]
[56]: [1, 'arnob', 'My queen', 2, [10, 44], 3]
[57]: 1.pop(3)
      1
[57]: [1, 'arnob', 'My queen', [10, 44], 3]
[64]: 1 = [1, "arnob", "My queen", [10, 44],3]
      1
[64]: [1, 'arnob', 'My queen', [10, 44], 3]
```

```
[65]: 1.remove(3)
[65]: [1, 'arnob', 'My queen', [10, 44]]
[66]: 1[3].remove(44)
[66]: [1, 'arnob', 'My queen', [10]]
[67]: 1[1].remove(a)##string cannot be menipulated
      AttributeError
                                                 Traceback (most recent call last)
      Cell In [67], line 1
      ----> 1 1[1].remove(a)
      AttributeError: 'str' object has no attribute 'remove'
[72]: 1[::-1] ##temporary reverse
[72]: [[10], 'My queen', 'arnob', 1]
[73]: 1
[73]: [1, 'arnob', 'My queen', [10]]
[74]: 1.reverse()##permanent reverse
      1
[74]: [[10], 'My queen', 'arnob', 1]
[75]: 1
[75]: [[10], 'My queen', 'arnob', 1]
[76]: 1
[76]: [[10], 'My queen', 'arnob', 1]
[79]: 1 = [[10], 'My queen', 'arnob', 1]
[79]: [[10], 'My queen', 'arnob', 1]
```

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[82]: 1 = 1[::-1] ##permanent reverse by assingning a new variable
[82]: [1, 'arnob', 'My queen', [10]]
[83]: 1
[83]: [1, 'arnob', 'My queen', [10]]
[84]: 1.sort()
      TypeError
                                                  Traceback (most recent call last)
      Cell In [84], line 1
       ----> 1 1.sort()
             2 1
      TypeError: '<' not supported between instances of 'str' and 'int'</pre>
[86]: 1 = [1,2,3,4,10,9,8,7]
      1.sort()
      1
[86]: [1, 2, 3, 4, 7, 8, 9, 10]
[88]: 1 = ["arnob", "my queen", "dada", "pwskills"]
      1.sort()
      1
[88]: ['arnob', 'dada', 'my queen', 'pwskills']
[90]: l.sort(reverse = True)
[90]: ['pwskills', 'my queen', 'dada', 'arnob']
[91]: l.index("arnob")
[91]: 3
[94]: 1.count("arnob")
[94]: 1
```

```
[95]: 1 = [1,2,3,]
 [95]: [1, 2, 3]
 [97]: 1[0] = 'a'
 [97]: ['a', 2, 3]
 [98]: 1[2]= 4
       1
 [98]: ['a', 2, 4]
 [99]: s = "Arnob"
       s
 [99]: 'Arnob'
[100]: s[0]
[100]: 'A'
[101]: s[0]='s'
        TypeError
                                                   Traceback (most recent call last)
        Cell In [101], line 1
        ---> 1 s[0] = 's'
              2 s
        TypeError: 'str' object does not support item assignment
[103]: s
[103]: 'Arnob'
[106]: s.replace('A', 'S') #temporary replacement
[106]: 'Srnob'
[107]: s
[107]: 'Arnob'
```

```
[1]: t = ([1,2,3], 2,3,4, "Arnob", (4+5j))
 [1]: ([1, 2, 3], 2, 3, 4, 'Arnob', (4+5j))
 [2]: type(t)
 [2]: tuple
 [3]: t[::-1]
 [3]: ((4+5j), 'Arnob', 4, 3, 2, [1, 2, 3])
[12]: | 1 = ["Arnob", "My queen", "pwskills"]
[12]: ['Arnob', 'My queen', 'pwskills']
[13]: 1[2] = 2345
      1
[13]: ['Arnob', 'My queen', 2345]
[14]: t = ("Arnob", "My queen", "pwskills")
      t[2] = 22345 #not possible in tuple
      TypeError
                                                  Traceback (most recent call last)
       Cell In [14], line 2
            1 t = ("Arnob", "My queen", "pwskills")
       ----> 2 t[2] = 22345
      TypeError: 'tuple' object does not support item assignment
[15]: s1 = {}
      type(s1)
[15]: dict
[16]: s2 = \{1, 2, 3, 4\}
      type(s2)
[16]: set
[17]: s3 = \{1,2,3,[5,6,8], "arnob",5+7j\}
```

```
TypeError
                                                  Traceback (most recent call last)
      Cell In [17], line 1
      ---> 1 s3 = \{1,2,3,[5,6,8],"arnob",5+7j\}
      TypeError: unhashable type: 'list'
[30]: s4 = \{1,2,3,4,(2+9j), "arnob", "pwskills"\}
      s4#set only contains primitive data type
[30]: {(2+9j), 1, 2, 3, 4, 'arnob', 'pwskills'}
[27]:
      TypeError
                                                  Traceback (most recent call last)
      Cell In [27], line 1
      ----> 1 s4[::-1]
      TypeError: 'set' object is not subscriptable
[31]: s4=\{1,1,1,1,2,2,2,2,3,3,3,3,5,5,5,5\}
      s4#set only indentifies unique element
[31]: {1, 2, 3, 5}
[33]: s4 = [1,2,2,2,2,3,3,3,"arnob","my queen"]
      s4
[33]: {1, 2, 3, 'arnob', 'my queen'}
[34]: set(s4)
[34]: {1, 2, 3, 'arnob', 'my queen'}
[37]: list(set(s4))
      s4
[37]: [1, 2, 3, 'my queen', 'arnob']
[38]: s5 = \{1,2,2,3,3,33,3,3,5,5,5,4,4,4\}
      s5
[38]: {1, 2, 3, 4, 5, 33}
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[41]: s5.add(6)
      s5
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[41]: {1, 2, 3, 4, 5, 6, 33}

[52]: {1, 2, 3, 4, 5, 33}

[53]: s5.remove(4) s5

[53]: {1, 2, 3, 5, 33}

[]: