

practice

April 15, 2023

```
[1]: v=5+6j
```

```
[2]: type(v)
```

```
[2]: complex
```

```
[3]: print("My name is shrinu")
```

```
My name is shrinu
```

```
[4]: v=5+8j
```

```
[5]: print(v)
```

```
(5+8j)
```

```
[6]: s="pwwskills"
```

```
[7]: s[2]
```

```
[7]: 's'
```

```
[8]: s[-2]
```

```
[8]: 'l'
```

```
[9]: s[0:5]
```

```
[9]: 'pwwski'
```

```
[10]: s[0:8:2]
```

```
[10]: 'psil'
```

```
[11]: s[::-2]
```

```
[11]: 'psil'
```

```
[12]: s[0:6:2]
[12]: 'psi'
[13]: s[::-1]
[13]: 'sllikswp'
[14]: s[-1:-9:-1]
[14]: 'sllikswp'
[15]: s[8:0:-1]
[15]: 'slliksw'
[16]: s1= "this is my string class"
[17]: len(s1)
[17]: 23
[18]: s1.find('s')
[18]: 3
[19]: s1.find('is')
[19]: 2
[20]: s1.find('iS')
[20]: -1
[21]: s1.count('s')
[21]: 5
[22]: s1.count('st')
[22]: 1
[23]: s1.count('z')
[23]: 0
[24]: s1.upper()
```

```
[24]: 'THIS IS MY STRING CLASS'
```

```
[25]: s2='THIS IS MY STRING CLASS'
```

```
[26]: ##this is code to convert any string into lower caps  
s2.lower()
```

```
[26]: 'this is my string class'
```

```
[27]: s
```

```
[27]: 'pwwskills'
```

```
[28]: s+"sudh"
```

```
[28]: 'pwwskillssudh'
```

```
[29]: s*3
```

```
[29]: 'pwwskillspwwskillspwwskills'
```

```
[30]: "sudh"*3
```

```
[30]: 'sudhsudhsudh'
```

```
[31]: #Python is boring
```

```
[32]: """this is my first class for programming  
i have learnt variable declaration , data type, string, int boolean, complex,  
↪number  
i have seen some example of string slicing and indexing"""
```

```
[32]: 'this is my first class for programming \n i have learnt variable declaration ,  
data type, string, int boolean, complex number\n i have seen some example of  
string slicing and indexing'
```

```
[33]: # this is my first class for programming  
# i have learnt variable declaration , data type, string, int boolean, complex,  
↪number  
# i have seen some example of string slicing and indexing
```

```
[34]: l=[2,34,'shrinu',3+5j,234.56]
```

```
[35]: type(l)
```

```
[35]: list
```

```
[36]: l1=[22,3,'vats']

[37]: l+l1

[37]: [2, 34, 'shrinu', (3+5j), 234.56, 22, 3, 'vats']

[38]: l1*3

[38]: [22, 3, 'vats', 22, 3, 'vats', 22, 3, 'vats']

[39]: len(l+l1)

[39]: 8

[40]: a="pwwskills"

[41]: l.append(a)

[42]: l

[42]: [2, 34, 'shrinu', (3+5j), 234.56, 'pwwskills']

[43]: l.append(l1)

[44]: l

[44]: [2, 34, 'shrinu', (3+5j), 234.56, 'pwwskills', [22, 3, 'vats']]

[45]: l[-1]

[45]: [22, 3, 'vats']

[46]: a=[2,3,4]

[47]: b=[1,5,7]

[48]: a+b

[48]: [2, 3, 4, 1, 5, 7]

[49]: a.append(b)

[50]: a

[50]: [2, 3, 4, [1, 5, 7]]

[51]: c=[2,3,7]
```

```
[52]: d=[8,10]
[53]: c+d
[53]: [2, 3, 7, 8, 10]
[54]: c
[54]: [2, 3, 7]
[55]: l.extend(l1)
[56]: l
[56]: [2, 34, 'shrinu', (3+5j), 234.56, 'pwwskills', [22, 3, 'vats'], 22, 3, 'vats']
[57]: c.insert(1,"sudh")
[58]: c
[58]: [2, 'sudh', 3, 7]
[59]: c.insert(-1,45)
[60]: c
[60]: [2, 'sudh', 3, 45, 7]
[61]: c.pop()
[61]: 7
[62]: c
[62]: [2, 'sudh', 3, 45]
[63]: c.pop(2)
[63]: 3
[64]: c.append('shrinu')
[65]: c
[65]: [2, 'sudh', 45, 'shrinu']
[66]: c.remove('shrinu')
```

```
[67]: c
[67]: [2, 'sudh', 45]
[68]: e=[2,43,2,7]
[69]: e.remove(2)
[70]: e
[70]: [43, 2, 7]
[71]: e.append([2,3,5])
[72]: e
[72]: [43, 2, 7, [2, 3, 5]]
[73]: e[3].remove(5)
[74]: e
[74]: [43, 2, 7, [2, 3]]
[75]: l3=[2,3,4,[5,3,'shrinu']]
[76]: l3
[76]: [2, 3, 4, [5, 3, 'shrinu']]
[77]: l3.reverse()
[78]: l3
[78]: [[5, 3, 'shrinu'], 4, 3, 2]
[79]: l3[::-1]
[79]: [2, 3, 4, [5, 3, 'shrinu']]
[80]: l3
[80]: [[5, 3, 'shrinu'], 4, 3, 2]
[81]: a=[2,3,9]
[82]: a=a[::-1]
```

```
[83]: a
[83]: [9, 3, 2]
[84]: a.sort()
[85]: a
[85]: [2, 3, 9]
[86]: a=[9,0,2,4,1,7,3]
[87]: a.sort()
[88]: a
[88]: [0, 1, 2, 3, 4, 7, 9]
[89]: a.sort(reverse=True)
[90]: a
[90]: [9, 7, 4, 3, 2, 1, 0]
[91]: a.index(4)
[91]: 2
[92]: a.count(4)
[92]: 1
[93]: b="shrinu"
[94]: b[0]
[94]: 's'
[95]: b[0]='g'
```

TypeError

Traceback (most recent call last)

Cell In[95], line 1

----> 1 b[0]='g'

TypeError: 'str' object does not support item assignment

```

[ ]: a[0]=10

[96]: a

[96]: [9, 7, 4, 3, 2, 1, 0]

[97]: b.replace('s','a')

[97]: 'ahrinu'

[98]: b

[98]: 'shrinu'

[99]: t=(2,3,4,'shrinu', 5+6j,[1,7,9])

[100]: type(t)

[100]: tuple

[101]: t[0]

[101]: 2

[102]: t[-1]

[102]: [1, 7, 9]

[103]: t[::-1]

[103]: ([1, 7, 9], (5+6j), 'shrinu', 4, 3, 2)

[104]: t[0]=8

-----
TypeError                                Traceback (most recent call last)
Cell In[104], line 1
----> 1 t[0]=8

TypeError: 'tuple' object does not support item assignment

[105]: t.count(2)

[105]: 1

[106]: t.index('shrinu')

```


[106]: 3

[107]: s1={}

[108]: type(s1)

[108]: dict

[109]: s2={2,3,45}

[110]: type(s2)

[110]: set

[111]: s3={2,3,4,5+7j,[7,8,9]}

```
-----  
TypeError                                Traceback (most recent call last)  
Cell In[111], line 1  
----> 1 s3={2,3,4,5+7j,[7,8,9]}  
  
TypeError: unhashable type: 'list'
```

[112]: s3={2,3,4,5+7j,(7,8,9)}

[113]: s3

[113]: {(5+7j), (7, 8, 9), 2, 3, 4}

[114]: type(s3)

[114]: set

[115]: s4={2,2,2,2,3,3,3,3,4,4,4,4,5,5,5,5,5}

[116]: s4

[116]: {2, 3, 4, 5}

[117]: s5={2,2,2,2,3,3,3,3,4,4,4,4,5,5,5,5,5,'Sudh','sudh'}

[118]: s5

[118]: {2, 3, 4, 5, 'Sudh', 'sudh'}

[119]: l5=[2,2,2,2,3,3,3,3,4,4,4,4,5,5,5,5,5,'Sudh','sudh']

```
[120]: set(15)
[120]: {2, 3, 4, 5, 'Sudh', 'sudh'}
[121]: 15=set(15)
[122]: 15
[122]: {2, 3, 4, 5, 'Sudh', 'sudh'}
[123]: 16={234, 345,12, 456, 78, 2 , 99,'shrinu', 125, 59}
[124]: 16
[124]: {12, 125, 2, 234, 345, 456, 59, 78, 99, 'shrinu'}
[125]: 16.add(3)
[126]: 16
[126]: {12, 125, 2, 234, 3, 345, 456, 59, 78, 99, 'shrinu'}
[ ]:
```