12/4/23, 12:57 AM Untitled2

```
In [1]: s = {}
 In [2]: type(s)
 Out[2]: dict
 In [3]: s = \{1,2,3,4,5,6\}
 In [4]: type(s)
 Out[4]: set
 In [6]: s
 Out[6]: {1, 2, 3, 4, 5, 6}
 In [7]: s2={"sudh", "sudh", "Sudh", 1,2,3,4,2,3,4,5,5,6,7,8}
 In [8]: s2
 Out[8]: {1, 2, 3, 4, 5, 6, 7, 8, 'Sudh', 'sudh'}
 In [9]: list(s2)
 Out[9]: ['sudh', 1, 2, 3, 4, 5, 6, 7, 'Sudh', 8]
In [13]: 1=[]
In [15]: type(1)
Out[15]: list
In [13]: 12=[3,4,5,"pwskills","sudh"]
In [16]: 12
Out[16]: [3, 4, 5, 'pwskills', 'sudh']
In [17]: set(12)
Out[17]: {3, 4, 5, 'pwskills', 'sudh'}
In [18]: ll= [1,2,3,4,5, "sudh", "kumar", 3+6j, 345.565, True, [3,4,5,6]]
In [19]: 11
Out[19]: [1, 2, 3, 4, 5, 'sudh', 'kumar', (3+6j), 345.565, True, [3, 4, 5, 6]]
In [23]: set(11)
```

12/4/23. 12:57 AM Untitled2

```
TypeError
                                                   Traceback (most recent call last)
         Cell In[23], line 1
         ----> 1 set(11)
         TypeError: unhashable type: 'list'
In [24]: tuple(s2)
Out[24]: ('sudh', 1, 2, 3, 4, 5, 6, 7, 'Sudh', 8)
In [25]: s2
Out[25]: {1, 2, 3, 4, 5, 6, 7, 8, 'Sudh', 'sudh'}
In [26]: s2[0]
         TypeError
                                                   Traceback (most recent call last)
         Cell In[26], line 1
         ----> 1 s2[0]
         TypeError: 'set' object is not subscriptable
In [27]: s3 = {345,456456,23,12,34,56,78,12,12,34,34,56,"sudh",23456}
In [28]: s3
Out[28]: {12, 23, 23456, 34, 345, 456456, 56, 78, 'sudh'}
In [29]: d={}
In [30]: type(d)
Out[30]: dict
In [35]: d1 = {'name' : "aditi" , 'subject' : ["data science", "data analyst"] , 'number':
In [37]: d1
Out[37]: {'name': 'aditi',
           'subject': ['data science', 'data analyst'],
           'number': 43242424}
In [38]: d2 = {"name":"aditi" , "name":"pwskills"}
In [39]: d2
Out[39]: {'name': 'pwskills'}
In [40]: d3={23424:"sudh"}
In [42]: d3={{2,32,4,4}:"aditi"}
```

12/4/23. 12:57 AM Untitled2

```
TypeError
                                                    Traceback (most recent call last)
         Cell In[42], line 1
         ----> 1 d3={{2,32,4,4}:"aditi"}
         TypeError: unhashable type: 'set'
In [45]: | d3={"%fsf" : "aditi"}
In [47]: d4= {'course': ['dsa','java','wedev','blockchain','cloud'],'mentor': ('sudh','krish
               'price': {3400,8900}, 'duration':(1,2)}
In [48]: d4
Out[48]: {'course': ['dsa', 'java', 'wedev', 'blockchain', 'cloud'],
           'mentor': ('sudh', 'krish'),
           'price': {3400, 8900},
           'duration': (1, 2)}
In [49]: d4['course']
Out[49]: ['dsa', 'java', 'wedev', 'blockchain', 'cloud']
In [50]: d4['mentor']
Out[50]: ('sudh', 'krish')
In [51]: | d4['price']
Out[51]: {3400, 8900}
In [52]: d4['duration']
Out[52]: (1, 2)
In [53]: d2
Out[53]: {'name': 'pwskills'}
In [54]: d2['name']
Out[54]: 'pwskills'
In [56]: d2['name']="aditi"
In [57]: d2
Out[57]: {'name': 'aditi'}
In [58]: s1="pwskills"
In [59]: s1.count('l')
```

12/4/23, 12:57 AM Untitled2

```
Out[59]: 2
In [60]: s1.find('l')
Out[60]: 5
In [61]: s1.index('p')
Out[61]: 0
In [62]: s1.index('s')
Out[62]: 2
In [63]: s1.find('z')
Out[63]: -1
In [64]: s1.index('z')
         ValueError
                                                   Traceback (most recent call last)
         Cell In[64], line 1
         ----> 1 s1.index('z')
         ValueError: substring not found
In [65]: s1
Out[65]: 'pwskills'
In [66]: s1.upper()
Out[66]: 'PWSKILLS'
In [67]: s1.lower()
Out[67]: 'pwskills'
In [68]: s1.title()
Out[68]: 'Pwskills'
In [69]: s2="My name ia aditi kulshrestha"
In [70]: s2.title()
Out[70]: 'My Name Ia Aditi Kulshrestha'
In [71]: s2.split()
Out[71]: ['My', 'name', 'ia', 'aditi', 'kulshrestha']
```

12/4/23, 12:57 AM Untitled2

```
In [72]: s3="my name,is ,aditi kulshrestha"
In [73]: s3.split('s')
Out[73]: ['my name,i', ',aditi kul', 'hre', 'tha']
In [74]: s1
Out[74]: 'pwskills'
In [76]: s1.capitalize()
Out[76]: 'Pwskills'
In [77]: s2
Out[77]: 'My name ia aditi kulshrestha'
In [78]: s2.capitalize()
Out[78]: 'My name ia aditi kulshrestha'
In [79]: s2.replace('a','d')
Out[79]: 'My ndme id dditi kulshresthd'
In [79]: 'My ndme id dditi kulshresthd'
```