```
d = {
     'name' : 'venkat',
      'mobile': 9390018934,
      'email' : 'venkat@gmail.com',
      'technology' : 'python'
print(d)
    {'name': 'venkat', 'mobile': 9390018934, 'email': 'venkat@gmail.com', 'technology':
print(type(d))
    <class 'dict'>
print(len(d))
print(id(d))
    140189290854016
for i in d:
  print(i,end=' ')
    name mobile email technology
for i in d:
  print(i)
    name
    mobile
    email
    technology
print(d.keys())
    dict keys(['name', 'mobile', 'email', 'technology'])
print(d.values())
    dict_values(['venkat', 9390018934, 'venkat@gmail.com', 'python'])
```

```
bi.Tilr(a.Trems())
    dict_items([('name', 'venkat'), ('mobile', 9390018934), ('email', 'venkat@gmail.com')
for key in d.keys():
  print(key)
    name
    mobile
    email
    technology
for value in d.values():
  print(value)
    venkat
    9390018934
    venkat@gmail.com
    python
for item in d.items():
  print(item)
     ('name', 'venkat')
     ('mobile', 9390018934)
     ('email', 'venkat@gmail.com')
     ('technology', 'python')
for key,value in d.items():
  print(key,' : ',value)
    name : venkat
    mobile : 9390018934
    email : <a href="mailto:venkat@gmail.com">venkat@gmail.com</a>
    technology : python
d = {
     'name' : 'venkat',
       'mobile' : 9390018934,
       'email' : 'venkat@gmail.com',
       'technology' : 'python'
}
print(d['email'])
    venkat@gmail.com
```

```
d['name'] = 'sekhar'
print(d)
    {'name': 'sekhar', 'mobile': 9390018934, 'email': 'venkat@gmail.com', 'technology':
d['address'] = 'hyderabad'
print(d)
    {'name': 'sekhar', 'mobile': 9390018934, 'email': 'yenkat@gmail.com', 'technology':
d = {
    10: 'python',
     12.88: 'python',
     True: 'python',
     False: 'python',
      'python': 'python',
     (1,2,3): 'python',
     frozenset({1,2,3}):'python',
}
d = {
    'python':10,
      'python':12.88,
      'python':True,
      'python':False,
      'python': 'python',
      'python':[1,2,3],
      'python':(1,2,3),
      'python':{1,2,3},
      'python':frozenset({1,2,3}),
      'python':{1:1,2:4,3:9}
}
print(d)
    {'python': {1: 1, 2: 4, 3: 9}}
d = {
     'name' : 'venkat',
      'mobile': 9390018934,
      'email' : 'venkat@gmail.com',
      'technology' : 'python'
```

```
print(d['name'][::-1])
    taknev
print(d['address'])
    KeyError
                                            Traceback (most recent call last)
    <ipython-input-25-6c9f28f8e13d> in <module>
     ----> 1 print(d['address'])
    KeyError: 'address'
      SEARCH STACK OVERFLOW
```

## - dict.get()

```
'name' : 'venkat',
     'mobile' : 9390018934,
     'email' : 'venkat@gmail.com',
     'technology' : 'python'
}
print(d.get('name'))
   venkat
print(d.get('address'))
   None
print(d.get('address','invalid key'))
   invalid key
print(d.get('name','invalid key'))
   venkat
```

## - dict.fromkeys()

```
1 = ['name','mobile','email','technology']
d = dict.fromkeys(1)
print(d)
    {'name': None, 'mobile': None, 'email': None, 'technology': None}
1 = ['name','mobile','email','technology']
d = dict.fromkeys(1, 'please update data')
for key,value in d.items():
  print(key,' : ',value)
    name : please update data
    mobile : please update data
    email : please update data
    technology : please update data
d = dict.fromkeys('python','python')
for key,value in d.items():
  print(key,' : ',value)
    p : python
    y : python
    t : python
    h : python
    o : python
    n : python
```

# - dict.update()

# - dict.setdefault()

```
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                                  N1 23 24Feb2023.ipynb - Colaboratory
       'name' : 'venkat',
         'mobile': 9390018934,
         'email' : 'venkat@gmail.com',
         'technology' : 'python'
   }
  print(d.setdefault('name', 'sekhar'))
       venkat
  d = {
         'mobile' : 9390018934,
         'email' : 'venkat@gmail.com',
         'technology' : 'python'
  print(d.setdefault('name', 'sekhar'))
       sekhar
  print(d)
       {'mobile': 9390018934, 'email': 'venkat@gmail.com', 'technology': 'python', 'name':
- dict.pop()
  d = {
       'name' : 'venkat',
         'mobile': 9390018934,
         'email' : 'venkat@gmail.com',
         'technology' : 'python'
   }
  print(d.pop('technology'))
       python
```

mobile : 9390018934
email : venkat@gmail.com

name : venkat

for key,value in d.items():
 print(key,' : ',value)

#### - dict.popitem()

```
d = {
      'name' : 'venkat',
       'mobile' : 9390018934,
       'email' : 'venkat@gmail.com',
       'technology' : 'python'
  }
  print(d.popitem())
      ('technology', 'python')
  print(d)
      {'name': 'venkat', 'mobile': 9390018934, 'email': 'venkat@gmail.com'}
- dict.clear()
  d = {
      'name' : 'venkat',
       'mobile': 9390018934,
       'email' : 'venkat@gmail.com',
       'technology' : 'python'
  d.clear()
  print(d)
      {}
  marks={
      '10th marks':None,
      'inter_marks':None
  }
  marks={
      '10th marks':{
           'telugu':80,
```

```
'hindi':70,
        'english':80,
        'maths':90,
        'science':100,
        'social':60
    },
    'inter_marks':{
        'telugu':90,
        'hindi':80,
        'english':72,
        'maths':97,
        'science':85,
        'social':50
    }
}
print(marks['10th marks']['science'])
   100
print(marks['inter marks']['science'])
   85
# task 1
1 = [7,0,3,2,1,11,10,14,16,25]
[0,7,2,3,11,1,14,10,25,16] # swap
# task 2
1 = [7,0,3,2,1,11,10,14,16,25]
[7,0,3,2,1,11,1,41,61,52] # reverse
# task 3
1 = [7,0,3,2,1,11,10,14,16,25]
[14,0,6,4,1,22,10,14,16,25] # prime
# task 4:
1 = [7,0,3,2,1,11,10,14,16]
lst = [[7,0,3],[2,1,11],[10,14,16]]
# task 5
1 = [3,2,5,4,1,2,6,6,4,3,2,7,5,4,3,2,1,1] # each item count
```

```
3 -> 3
2 -> 4
5 -> 2
4 -> 3
1 -> 3
6 -> 2
7 -> 1
111
# task 6
1 = [3,2,5,4,1,2,6,6,4,3,2,7,5,4,3,2,1,1]
3 -> 9
2 -> 8
5 -> 10
4 -> 12
1 -> 3
6 -> 12
7 -> 7
1 1 1
# task 7
1 = [171,258,503,102,786,924,245]
[9,6,8,3,3,6,2]
```

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×